

Far East District



US Army Corps
of Engineers®
Far East District

YEAR IN

REVIEW

2013



08
Active Project List

14
Area I Projects

16
Area II Projects

18
Humphreys Projects
Construction Surveillance Resident Office
Family Housing Resident Office
Medical Resident Office
P2 Resident Office
Pyeongtaek Resident Office

38
Korea Relocation Projects

40
Osan Air Base Projects

44
Area IV Projects

46
Chinhae & Mujuk Projects

48
Kunsan Projects

YEAR-in-REVIEW 2013

50
Engineering Division

56
Contracting Division

60
Resource Management



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From the Far East District Commander

To Our Valued Customers and Stakeholders:



Col. Bryan S. Green

This annual Year-in-Review is provided to you, our partners and stakeholders, to show the many significant projects that have either begun, continued or were completed during 2013.

This was an incredibly productive year for the district and 2014 is shaping up to be even more so. As of early this year, about 35 percent of the Yongsan Relocation Plan and 50 percent of the Land Partnership Plan is complete. This is part of a \$15 billion program over nearly a decade of work.

For Fiscal Year 2013 alone, our Contracting Division awarded a total of 860 actions totaling \$372.3 million. We awarded the last action, an \$11.5 million contract modification at 9 p.m. on September 30 the last day of the fiscal year.

Throughout the Peninsula our team of dedicated professionals has continued to Build Strong and meet the construction and engineering needs of United States Forces Korea.

A look at the active project list shows the scope of the work the district is responsible for, from a large number of U.S. military projects at U.S. Army Garrison Humphreys and Kunsan and Osan Air Bases to a smaller number of projects at various U.S. and Republic of Korea bases throughout the peninsula.

In Area I, much of the district's work was done at the Rodriguez Range complex. In late 2012 a draining improvement project was completed, and in February 2013 the infantry platoon battle area was completed, further improving the training environment for our forces on the peninsula.

While much of the focus is on upcoming moves from the U.S. Army Garrison Yongsan area, there is still work to be done to maintain facilities until the move is com-

pleted. One barracks upgrade was completed in November 2013, providing energy-efficient heating, ventilation and air conditioning units and various other safety and quality-of-life items.

As planned, the vast majority of our projects this year have been in Area III, primarily at U.S. Army Garrison Humphreys in support of the Yongsan Relocation and Land Partnership Plans. It was a big year for the base, with many groundbreakings and ribbon cuttings. Two major projects were the garrison middle and high schools, which opened in 2013. By summer 2014 we expect to have about 16,000 construction workers on projects at the base. About 40 percent of the work there has been complete, and that percentage will greatly increase throughout the coming year.

At Osan Air Base work continued on the runway expansion, which is expected to be completed in late 2014. The district also did repair work on the main runway in September and early October 2013. Two dormitories are under construction and another two were completed in 2013.

In Area IV, the southernmost section of the peninsula, work began on the U.S. Naval Forces Korea headquarters at Busan; various facilities at U.S. Army Garrison Daegu, and other facilities in such locations as Camp Mujuk and Fleet Activities Chinhae.

Our dedicated U.S. and Korean personnel will not have time to rest on their successes for 2013, as our workload is only growing over the next year. We remain committed to supporting U.S. Forces Korea through the coming challenges and future opportunities, both on and off the peninsula.

Total Program **40%**

\$10.7
Billion total value



3,528
New total acreage

655 buildings in construction
The number of buildings being demolished is **339**

The original square footage of space at U.S. Army Garrison Humphreys was **4** million.
Once construction is complete, this volume will rise to **29** million square feet.

Approximate number of workers on site by July 2015: **16,000**

LDUI



YRP



LPP



Projects Turned Over



133 remaining



KORCOM Operations Center

Construction start: June 2013
Expected Completion Date: Late 2015

Scope of project: Construct Korea Command Operations Center to support overall Korea Command and United Nations Command headquarters. Will support the Armistice monitoring mission and Crisis Action Team response during peacetime and crisis operations. It will support Secure Facility activities, Joint staff and various Component commands with operational, administrative and support space. Current activity is site work.

Hospital and Ambulatory Care Center

Construction start: Nov. 2012
Expected Completion Date: Early 2016

Scope of project: The completed medical campus will be able to support 65,000 eligible beneficiaries and 5,000 annual inpatient admissions. It will also house the 65th Medical Brigade headquarters. Construction is about 13 percent complete.



Vehicle Maintenance Facility 070A/B

Construction start: Aug. 2012
Completed project turned over to Garrison

Scope of projects: Construct standard design Tactical Equipment Maintenance Facilities for company/battalion operations, including vehicle parking, POL storage, office space, supply and parts storage, oil/water separators, maintenance bays and security/mass notification systems. 070 A/B are 100 percent complete.



Vehicle Maintenance Facility 060

Construction start: Nov. 2012
Expected Completion Date: Early 2016

Scope of projects: Construct standard design Tactical Equipment Maintenance Facilities for company/battalion operations, including vehicle parking, POL storage, office space, supply and parts storage, oil/water separators, maintenance bays and security/mass notification systems. Several VMF's are completed and others in various stages of completion. 060 is about 12 percent complete.

Child Development Center

Construction start: Dec. 2012
Expected Completion Date: Mid 2014

Scope of project: The new Morale, Welfare and Recreation Child Development Center is about 48 percent complete. Recent work included ceiling finish work.



Small Unit Training Area

Construction start: Early 2014
Expected Completion Date: Spring 2015

Scope of project: The training area will consist of a standard-design obstacle course with a maneuver and training area for light forces. Awaiting site release in April 2014.

Small Unit Training
100 percent design



Vehicle Maintenance Facility
060
12 percent complete



Updated as of
March 18, 2014

KORCOM Complex
2 percent complete



Vehicle Maintenance
Facility 070 A/B



100 percent complete



38 percent
Overall Progress
Korea Relocation Program

Child Development
Center
45 percent complete



Hospital and Ambulatory
Care Center
13 percent complete



Active Project List

Location	Program	Project Name	Phase	Design	Construction
Chinhae	2014	Consolidated Comm Facility	Design	100	
Camp Carroll	2013	Repair Bldg 671	Design	90	
Camp Carroll	2013	Repair Ceiling Bldg 605 & 606	Design	93	
Camp Carroll	2005	H-805 Relocation - Camp Walker to Carroll	Design	25	
Camp Carroll	2013	Repair/Upgrade BOC Office Bldg 912	Design	92	
Camp Carroll	2014	Area IV YRP - UEPH, BN & CO OPS Headquarters	Design	11	
Camp Mujuk	2012	Furniture Buy Plan (110 PN Navy Barracks)	Design	99	
Camp Red Cloud	2013	APPL Projects, Pkg 4	Design	100	
Camp Red Cloud	2013	APPL Projects, Pkg 5	Design	100	
Camp Red Cloud	2013	APPL Projects, Pkg 6	Design	95	
Camp Red Cloud	2013	APPL Projects, Pkg 7	Design	95	
Camp Red Cloud	2013	APPL Projects, Pkg 3	Design	100	
Camp Red Cloud	2014	SRM Projects, Pkg 1	Design	38	
CP Tango	2014	Install Various Systems	Design	100	
Camp Walker	2015	CAP 081230 Family Housing New Construction	Design	20	
Camp Walker	2014	Construct Middle/High School	Design	90	
Camp Walker	2014	Repair/Upgrade Health Clinic	Design	55	
Camp Walker	2012	Renovate Building S-348	Design	100	
Humphreys	2008	C4I/Info System - Outside Plant CAir Baseling	Design	100	
Humphreys	2013	Unaccompanied Enlisted Personnel Housing	Design	100	
Humphreys	2013	Unaccompanied Enlisted Personnel Housing	Design	100	
Humphreys	2014	Downtown SLQs	Design	100	
Humphreys	2014	Elementary School	Design	99	
Humphreys	2014	Landscaping Development	Design	95	
Humphreys	2014	Air Support Operations Sq Comp	Design	99	
Humphreys	2014	2 CAir Base Expanded Org Parking	Design	100	
Humphreys	2015	Bulk Fuel Storage Tanks & Pumps	Design	99	
Humphreys	2017	Duplex Company Operations ZS	Design	20	
Humphreys	2009	Midtown Community Support	Design	99	
Humphreys	2009	Band Training Facility, CAC & Multipurpose fields	Design	99	
Humphreys	2009	AAFES Facilities	Design	99	
Humphreys	2009	Installation VMF	Design	90	
Humphreys	2009	Family Housing Towers	Design	100	
Humphreys	2010	Downtown Exchange and Commissary	Design	99	
Humphreys	2010	Warehouse Area	Design	30	

Humphreys	2010	Small Arms Range	Design	90	
Humphreys	2010	Renovate Downtown SLQs	Design	100	
Humphreys	2010	Downtown Business Park	Design	100	
Humphreys	2011	Medical Support Area	Design	99	
Humphreys	2011	Landscaping	Design	30	
Humphreys	2011	Animal Building & Others	Design	30	
Humphreys	2012	Type II Aircraft Parking Apron, Surface	Design	18	
Humphreys	2014	Access Control Point III (Dodu-Ri Gate)	Design	90	
Kunsan Air Base	2014	Repair Fire Protection System B-2242	Design	100	
Kunsan Air Base	2014	Upgrade Fuel System Repair Shop B-2257	Design	100	
Kunsan Air Base	2015	Munitions Inspections	Design	100	
Kunsan Air Base	2015	Construct Aircraft Rinse Facility	Design	90	
Kunsan Air Base	2015	Construct 3rd Generation HAS (Ph 1)	Design	90	
Kunsan Air Base	2015	Construct 3rd Generation HAS (Ph 2)	Design	90	
Kunsan Air Base	2015	Construct 3rd Generation HAS (Ph 3)	Design	90	
Kunsan Air Base	2015	Flow-Through HAS	Design	85	
Kunsan Air Base	2015	Repair Bldg 1305	Design	90	
Kunsan Air Base	2016	New Commercial Gate	Design	90	
Kunsan Air Base	2016	Replace Standby Generator System	Design	90	
Kunsan Air Base	2017	Transient Aircraft Parking	Design	2	
Kwangju Air	2012	Repair Filter Separator & Rail Head Meter	Design	30	
Kwangju Air	2017	Aircraft Parking Apron & HAS	Design	35	
Kwangju Air	2017	Construct Type IV Hydrant System	Design		
Osan Air Base	2016	ACE SMYU023005 Korea Air Space Ops & Combat Ops-Intel Center	Design	15	
Osan Air Base	2012	Repair CampS System Multi Dorm	Design	100	
Osan Air Base	2013	Repair Fire Protection System B-1729	Design	100	
Osan Air Base	2013	Fence for Land Acquisition	Design	100	
Osan Air Base	2014	Munitions Storage Area Alpha	Design	98	
Osan Air Base	2014	Replace Main Runway	Design	100	
Osan Air Base	2015	607th ASOG & SOCKOR	Design	13	
Osan Air Base	2015	HAZMART Relocation	Design	90	
Osan Air Base	2015	Morin Gate ECF	Design	45	
Osan Air Base	2015	Munitions Storage Area Delta (Ph 1)	Design	90	
Osan Air Base	2015	Base Perimeter Defense System	Design	50	
Osan Air Base	2016	Aircraft Fuel System Maintenance	Design	5	
Osan Air Base	2016	Const Small Arms Range Com	Design	80	
Osan Air Base	2017	Construct Chapel Center	Design	20	
Osan Air Base	2017	Munitions Storage Area Delta (Ph 2)	Design	90	

Location	Program	Project Name	Phase	Design	Construction
Osan Air Base	2017	Aircraft Parts Distribution Center	Design	15	
Osan Air Base	2017	Military Working Dog Kennel Facility	Design	30	
Osan Air Base	2009	VIP Aircraft Area	Design	10	
Busan	2014	Repair Joint Rigging Facility	Design	99	
Suwon	2017	Upgrade Water Distribution System	Design	5	
Suwon	2017	Type IV Hydrant System	Design		
Daegu	2011	Develop Holistic Master Plan for Southern Hub and Area IV	Design	90	
Daegu Air Base	2017	Upgrade Water Distribution System	Design	92	
Daegu Air Base	2017	Large Aircraft Apron	Design	5	
Daegu Air Base	2017	Aircraft Apron & HAS	Design	5	
Various	2013	Survey/Study Traing Fac Ph V	Design	50	
Yongsan	2014	Eighth Army Furniture Study	Design	100	
Chinhae	2009	Fleet and Family Town Center	Construction	100	98
Camp Carroll	2010	DDD-K Various Projects	Construction	100	92
Camp Carroll	2012	Repair/Replace Ceiling Bldg # 605	Construction	100	100
Camp Carroll	2011	CAP 051740 Troop Medical/Dental	Construction	100	99
Camp Carroll	2012	CAP 072650 Barracks and Vehicle	Construction	100	31
Camp Carroll	2012	Install New Generator & ATS, Bldg # 563	Construction	100	99
Camp Carroll	2013	Upgrade Washrack Bldg 970	Construction	100	6
Camp Casey	2013	Repair Road Ways, DET L, Yawolsan	Construction	100	15
Camp Casey	2013	Elec Deficiencies DET L, Yawolsan	Construction	100	13
Camp Casey	2013	Elec Deficiencies DET K, Kamaksan	Construction	100	0
Camp Henry	2012	CAP 076235 Barracks w/DFAC	Construction	100	74
Camp Henry	2013	Repair/Upgrade Substation	Construction	100	2
Camp Mujuk	2013	Oil/Water Separator	Construction	100	100
Camp Mujuk	2013	110 PN Navy Barracks	Construction	100	100
Camp Walker	2012	Upgrade HVAC System B-205	Construction	100	53
Humphreys	2008	CAP 058784 Whole Barracks Rene	Construction	100	49
Humphreys	2010	CAP 056656 Consolidated Vehicle	Construction	100	100
Humphreys	2010	CAP 058399 Vehicle Maint Fac	Construction	100	100
Humphreys	2010	CAP 060783 Airfield Rescue & F	Construction	100	98
Humphreys	2013	CAP 076196 Battalion Headquarters Complex	Construction	100	0
Humphreys	2014	Army Family Housing - Senior Officers	Construction	100	0
Humphreys	2004	Land & Infrac Dev - Parcel 2A	Construction	100	99
Humphreys	2007	Utils & Infrac - Parcel 2A, 1 & K (New Land)	Construction	100	68
Humphreys	2008	Utils & Infrac for Existing Land	Construction	100	43
Humphreys	2009	Water Upgrade (Existing Land) Ph1	Construction	100	63

Humphreys	2009	Upgrade Power Distribution & Substation	Construction	100	74
Humphreys	2010	Downtown Area Distribution Node	Construction	100	20
Humphreys	2008	Airfield Operation Building	Construction	100	100
Humphreys	2009	VMF w/Company Operation (601)	Construction	100	100
Humphreys	2009	NCO Academy and Transient UPH	Construction	100	11
Humphreys	2010	Consolidated HBCT Headquarters	Construction	100	92
Humphreys	2010	EUSA Barracks and 2-DFACs	Construction	100	99
Humphreys	2010	HBCT Barracks and DFAC	Construction	100	78
Humphreys	2010	Child Development Center & Playground	Construction	100	89
Humphreys	2010	Warrior Support ADN	Construction	100	93
Humphreys	2011	Type II Aircraft Parking	Construction	100	90
Humphreys	2011	HBCT VMFs I	Construction	100	57
Humphreys	2011	Fires Support VMFs II	Construction	100	73
Humphreys	2012	Simulation Center	Construction	100	13
Humphreys	2012	HBCT Barracks	Construction	100	52
Humphreys	2012	Soldier Troop Area Support	Construction	100	21
Humphreys	2012	HBCT VMFs II	Construction	100	48
Humphreys	2012	HBCT VMFs III	Construction	100	18
Humphreys	2012	Wash Facility and Drivers Training Course	Construction	100	9
Humphreys	2013	2ID Headquarters	Construction	100	1
Humphreys	2013	Small Unit Training	Construction	100	2
Humphreys	2013	HBCT VMFs IV	Construction	100	4
Humphreys	2007	Parcel 2B-1 LDUI	Construction	100	62
Humphreys	2007	Parcel 2B-2 LDUI	Construction	100	58
Humphreys	2007	Parcel K Land Development	Construction	100	100
Humphreys	2008	Phase III Facility	Construction	100	6
Humphreys	2008	Eighth Army / IMCOM Headquarters	Construction	100	0
Humphreys	2008	C4I/Info System - Outside Plant CAir Baseling (ROK)	Construction	100	29
Humphreys	2008	Hospital & Ambulatory Care Center	Construction	100	13
Humphreys	2008	Dental Clinic	Construction	100	13
Humphreys	2008	High School	Construction	100	100
Humphreys	2008	Elementary School	Construction	100	100
Humphreys	2008	Hospital Barracks and DFAC	Construction	100	2
Humphreys	2008	KORCOM Headquarters - Admin Facilities	Construction	100	4
Humphreys	2009	Troop Housing & ZS ADN	Construction	100	42
Humphreys	2009	EUSA Barracks	Construction	100	30
Humphreys	2009	Zoeckler Station SLQs	Construction	100	2
Humphreys	2009	Army Family Housing - General Officers	Construction	100	0
Humphreys	2009	Army Family Housing - O6 & Commanders	Construction	100	0

Location	Program	Project Name	Phase	Design	Construction
Humphreys	2009	Golf Course and Facilities	Construction	100	0
Humphreys	2009	Main Post Club	Construction	100	10
Humphreys	2009	Child Development Center	Construction	100	64
Humphreys	2009	Midtown Medical Facilities	Construction	100	3
Humphreys	2009	Zoeckler Station Community Support	Construction	100	0
Humphreys	2009	Communication Center	Construction	100	6
Humphreys	2009	Eighth Army VMF I	Construction	100	22
Humphreys	2009	Televideo Center	Construction	100	13
Humphreys	2009	Consolidated EUSA MSC Headquarters	Construction	100	7
Humphreys	2009	Consolidated Installation Headquarters Area	Construction	100	0
Humphreys	2009	Eighth Army VMFs II	Construction	100	16
Humphreys	2009	BCTC & Transient UPH	Construction	100	0
Humphreys	2009	Access Control Point I	Construction	100	0
Humphreys	2009	Access Control Points II (Quarry Gate)	Construction	100	0
Humphreys	2009	Railhead Facility	Construction	100	49
Humphreys	2009	Bulk Fuel Facility	Construction	100	0
Humphreys	2009	Middle School & Elementary School	Construction	100	19
Humphreys	2010	One Stop Processing Area	Construction	100	72
Humphreys	2010	Medical Brigade Headquarters & POV Parking Facility	Construction	100	13
Humphreys	2010	KORCOM Operations Center	Construction	100	74
Kunsan Air Base	2013	CAP 072420 Clinic Replacement	Construction	100	16
Kunsan Air Base	2011	Demo/Consolidate B512/B511	Construction	100	100
Kunsan Air Base	2011	Demo/Consolidate B950/B954	Construction	100	100
Kunsan Air Base	2013	Repair Dormitory B-1408	Construction	100	9
Kunsan Air Base	2013	Renovate Dormitory #339	Construction	100	48
Kunsan Air Base	2013	Repair Dormitory B-1407	Construction	100	10
Kunsan Air Base	2012	Munitions Storage Igloos	Construction	100	48
Kunsan Air Base	2013	Aircraft Arm/De-arm Pad	Construction	100	0
Kunsan Air Base	2013	Security Forces Facility	Construction	100	0
Kunsan Air Base	2013	Comm Squadron Facility	Construction	100	0
Kunsan Air Base	2013	Add to 35th AMU	Construction	100	0
Kunsan Air Base	2013	35th/80th AMU Equipment Storage	Construction	100	0
Kunsan Air Base	2013	Munitions Maintenance Facility	Construction	100	0
Madison	2014	Replace Water Lines	Construction	100	0
Munsan	2013	Maneuver Trail #1	Construction	100	100
Osan Air Base	2006	Construct Second Runway	Construction	100	75
Osan Air Base	2013	Repair AMC Cargo Apron C	Construction	100	6

Osan Air Base	2010	Replace Hydrant Fuel System	Construction	100	83
Osan Air Base	2013	CAP 072419 Hospital Addition/Alteration	Construction	100	5
Osan Air Base	2013	Replace Elementary School	Construction	100	3
Osan Air Base	2012	Install Climatic Control	Construction	100	100
Osan Air Base	2012	ACE SMYU123002 Dormitory (156 PN)	Construction	100	86
Osan Air Base	2009	Repair CampS System B-949	Construction	100	99
Osan Air Base	2010	Repair 5th RS Bldgs	Construction	100	99
Osan Air Base	2011	Repair 13.8 KV Feeder Diamond A	Construction	100	99
Osan Air Base	2011	Repair 13.8 KV Feeder Diamond B	Construction	100	3
Osan Air Base	2011	Repair 13.8 KV Feeder Broadway	Construction	100	3
Osan Air Base	2013	Repair of HVAC System in MFH Tower	Construction	100	32
Osan Air Base		Korea Storage Tanks Ph 3 Projs	Construction	100	30
Osan Air Base	2007	Const Consol 35th ADA Bde Headquarters	Construction	100	99
Osan Air Base	2010	Upgrade HTACC/KCOIC	Construction	100	100
Osan Air Base	2011	Construct Joint SNCO Dormitory (277 PN)	Construction	100	84
Osan Air Base	2011	Construct 36 FS OPS/AMU Facility	Construction	100	65
Osan Air Base	2013	PMEL Facility	Construction	100	3
Osan Air Base	2013	Aircraft Corrosion Control Facility	Construction	100	0
Osan Air Base	2013	Force Protection Operations Facility	Construction	100	1
Pohang	2009	Replace Aircraft Revetment	Construction	100	0
Busan	2012	Install Shore Power	Construction	100	4
Busan	2011	CNFK Headquarters in ROK Naval Base	Construction	100	6
Various	2007	Spartan Site A	Construction	100	90
Yongpyong	2011	Install New facility, Seminole Range	Construction	100	100
Yongpyong	2011	Install New Facility, Mohawk Range	Construction	100	100
Yongpyong	2013	Tank Trail #1	Construction	100	100
Yongpyong	2013	Inst New Fac, Watkins LTA	Construction	100	100
Yongpyong	2013	Inst New Fac, Black Hawk Village	Construction	100	100
Yongpyong	2013	Inst New Fac, Cherokee Valley	Construction	100	19
Yongpyong	2013	Inst New Fac, Mortar FP C-1	Construction	100	100
Yongpyong	2013	Inst New Fac, Mohican Range	Construction	100	100
Yongpyong	2013	Inst New Fac CACTF	Construction	100	100
Yongpyong	2013	Inst New Fac, IPBA A-H & Manchu Hill	Construction	100	100
Yongpyong	2013	Inst New Fac, Navajo Range	Construction	100	100
Yongpyong	2013	Repair GAir Baseion Wall	Construction	100	100
Yongsan	2014	Renovate Van Fleet Rm, Bldg 2462	Construction	100	0

AREA I PROJECTS

Yongpyong Projects

The construction of two drainage improvement projects at Rodriguez Live Fire Complex, Yongpyong, totaling \$1,077,000 were started in July 2012. The \$413,000 drainage improvement project at Warrior Valley Range was completed in Dec. 2012 and the \$664,000 drainage improvement project at the Infantry Platoon Battle Area (IPBA) was completed in Feb. 2013. These drainage improvement projects improved the existing drainage systems by repairing/replacing and upgrading the existing stream channels. The drainage improvement project at Warrior Valley included installation of a new concrete channel, rip-rap, gabion slope protection and man-proofing structure. The drainage improvement project at IPBA included installation of new gabion channel bank protection along both sides of the existing stream channel.



Drainage, Warrior Valley Range



Drainage, Infantry Platoon Battle Area

The construction work for this \$313,000 project at Rodriguez Live Fire Complex, Yongpyong, was to provide power and concrete pads for virtual clearance training suites simulator mobile trailer units and common driver trainer simulator mobile trailer units. It was started in Oct. 2012 and was completed in Dec. 2012.

The construction work for this \$1,477,000 project at Firing Point 180 in Yongpyong started in Aug. 2012 and was completed in March 2013. This project included installation of eight new concrete pads for the M109 Paladin Howitzer, a gravel paved area for the entire FP180 site and a stone ditch along the entire west side of the FP180 site.

The construction work for this \$647,000 Portland Cement Concrete (PCC) parking project at Warrior Valley Range in Rodriguez Live Fire Complex started in Aug. 2012 and was completed in May 2013. This project included a 5,380 square meter PCC paved parking area capable of supporting tracked vehicles, heavy duty guard rails and a drainage system.

The construction of seven projects totaling \$4,214,000 to install



New Facility, Warrior Valley Range



New Facility, Life Support Area

new facilities at seven ranges on Rodriguez Live Fire Complex, were started in July 2012 and Sept. 2012. Two projects were completed in May 2013, two projects were completed in June 2013, two projects were completed in Aug. 2013 and one project was completed in Sept. 2013. These projects installed new facilities at Mortar Firing Point W-4, Warrior Valley Demo Range, Warrior Valley Range, Life Support Area, Arapaho Range, Seminole Range, and Mohawk Range. These projects included some of the following facilities: operations/storage building, range tower, ammo issue point, guard booth, composting toilet and field latrines, septic tank and leaching field.

The construction work for this \$71,000 project to repair a gabion wall at Manchu Hill in Rodriguez LFC, Yongpyong, started in Aug. 2013 and was completed in Sept. 2013. This project repaired the existing gabion wall which was failing and sliding down a steep slope.

The construction work for this \$387,000 Repair and Upgrade Tank Trail #1 project to provide a new drainage ditch crossing and PCC parking area at Rodriguez Live Fire Complex, Yongpyong, started in May 2013 and was completed in Oct.

2013. This project replaced the existing RCP drainage ditch crossing with a new concrete box culvert capable of supporting a tracked vehicle. This project also replaced the existing gravel road and gravel parking area with new reinforced PCC pavement capable of supporting

new concrete box culvert capable of supporting a tracked vehicle and upgraded the stream channel by providing a sloped gabion mattress channel bank, riprap channel bottom, gabion wall across the channel opening, gravel access road and upgraded the existing man-proofing structure.



Repair and Upgrade of Tank Trail #1, Rodriguez Live Fire Complex



Repair and Upgrade of Maneuver Trail #1, Dagmar-North

tracked vehicles.

The construction work for this \$545,000 Repair and Upgrade Maneuver Trail #1 project to provide a new stream channel crossing and upgrade the stream channel at Dagmar-North, started in May 2013 and was completed in Nov. 2013. This project replaced the existing failing RCP stream channel crossing with a

Yawolsan and Kamaksan Projects

The construction work for this \$176,000 project to install perimeter fence lights and building exterior lights at Detachment L, Yawolsan, started in April 2012 and was completed in March 2013. This project

included installation of pole lights along the perimeter fence, building lights at the exterior of buildings and a lighting control system.

The construction work for this \$355,000 FY12 site improvement project at Detachment L, Yawolsan, started in Sept. 2012 and was completed in May 2013. This project included much need renovation to the site compound infrastructure and to five buildings. The work included items such as applying waterproofing material on the roof of four buildings, applying window film to all interior

windows of three buildings to reduce heat loss, installing new emergency lighting and replacing the existing defective emergency lighting in the Main Operations Building, replace wooden doors with fire rated doors in the Main Operations Building and interior painting and exterior painting of two buildings.

The construction work for this \$306,000 FY12 site improvement project at Detachment K, Kamaksan, started in Sept. 2012 and was completed in May 2013. This project included much need renovation to the

site compound infrastructure and to eight buildings. The work included items such as applying waterproofing material on the roof of four buildings, applying window film to all interior windows of four buildings to reduce heat loss, replacing the kitchen range hood with a new range hood with an extinguishing system, replacing kitchen cabinets, interior painting of three buildings and exterior painting of eight buildings, five fighting positions, two fuel oil tank concrete enclosures, ammo bunker and bunker.

troops entering and existing Command Post Tango. This project removed rock debris and damaged rock drapery system which pose overhead falling hazards for the CP Tango occupants and installed of the new rock drapery system. This project was awarded on Aug. 2013 and completed in Dec. 2013 at a cost of \$350,000.

OMA, MRI Trailer Installation

This project was a part of Job Order Contract Delivery Orders which was awarded at a cost of \$360,000 to Seong Bo Construction on March 15, 2013 and completed on Dec. 2, 2013. The purpose of this construction was to construct a MRI trailer site. The site was located on the south west side of the Brian Allgood Army Community Hospital. This project included new concrete pad, retaining wall, electrical and mechanical work, new walls and ceilings for the vestibule area including fire protection such as sprinklers. The newly placed MRI trailer gives the Brian Allgood Army Community Hospital an expanded capability to better serve the members of the USAG Yongsan.



MRI Trailer

AREA II PROJECTS

FY10 Army DIA MILCON, Warehouse Renovation

The Military Construction-Defense Installation Agency Warehouse renovation project was awarded on April 2012 and completed in Oct. 2013 at a cost of \$4.7 million. This project converted two existing warehouse spaces at K-16 to provide new office space for Forward Operating Base-Korea (FOB-K) from U.S. Army Garrison Yongsan. It will provide all supporting facilities including fence enclosure with access controlled gates, landscaping and site development to accommodate the renovation including parking for 40 government owned vehicles and eight privately owned vehicles to support FOB-K's future operation.



Building 602 - before



Building 602 - after

ROKFC, Rock Slope Stabilization Portal A

A rock fall occurred above Portal A in April 2013 and imposed threat to safe passage for

OMA, Barracks Building 1525 & 1526

This project was awarded to Kumsung Construction on Sept. 28, 2012, with a scheduled completion date of March 23, 2014. This \$3.5 million project will provide newly renovated barracks for the soldiers stationed

in USAG Yongsan. The renovation included two three-story barracks which consisted of installing energy efficient Heating, Ventilation, and Air Conditioning (HVAC) units, new domestic hot and cold water pipes, floor tiles, wall tiles, ceiling tiles, lighting fixtures, fire protection

system such as heat detectors and smoke detectors as well as fire rated doors. The construction was split into two phases where bldg. 1526 was completed on Nov. 17, 2013 and building 1525 which is scheduled to complete on March 23, 2014.



Barracks building 1525



Barracks building 1526

HUMPHREYS **PROJECTS**

Construction Surveillance Resident Office

Family Housing Resident Office

Medical Resident Office

P2 Resident Office

Pyeongtaek Resident Office



UEH040

Construction Surveillance Resident Office

YRP, C4I Communication Center

The Communication Center Project that was awarded on July 24, 2013 to GS Consortium commands a construction cost of \$170,951,000, which is scheduled to be completed on Dec. 16, 2015 at U.S. Army Garrison Humphreys.

This facility is essential to provide the needed communications systems and infrastructure support for the relocation of many critical facilities.

The Communications Center is a multi-story building. The building is divided into three main components. There is a protected area, an unprotected area, and a parking garage. The protected area will be constructed as a hardened structure with collective protection system that supports critical communications equipment, transmission, switch, network, and server systems and the personnel who operate, monitor, protect, and maintain them.

The protected area also gets redundant systems (generators, power, HVAC, etc.) to allow the facility to operate independently for a defined period. Also the geothermal wells of 1,038 holes in depth of 230 meters will provide 4,554 tons of energy, and cover the protected area's cooling at endurance mode and unprotected area's cooling and heating at normal mode.

The unprotected area is a three story component that wraps around the protected area providing additional protection against the defined threat. This area contains secure and unsecure spaces that provide services and support for USAG Humphreys C4I requirements.

The six-story parking structure is intended to provide parking for



Rendering of CY08 YRP Eighth Army/CNRK Headquarters

civilians and authorized military personnel working in the building. It will also provide additional customer and visitor parking for the facility.

Eighth Army/CNRK Headquarters

The Headquarters 010 Eighth Army/Commander Naval Forces Korea project was awarded in March 18, 2013 to Hyundai Development Center with a total cost of \$63,444,946 funded by Ministry of National Defense USFK Relocation Office. The

project is design by Sunjin Engineering and Architecture. The facility will be relocated from Yongsan Garrison to Humphreys Garrison, Korea. The project is schedule to be completed on June 27, 2015. The project consist of a three story building with traditional Korean brick (granite) roof exterior partition with an interior Sensitive Compartmented Information Facility, Operations Center, Network Operation Center. The facility also includes a parking facility to accommodate approximately 346 parking spaces, chiller plant, and



CY08 YRP Eighth Army/CNRK Headquarters – Concrete beams



CY08 YRP Eighth Army/CNRK Headquarters – Administration building

emergency shutoff generators with a JP-8 fuel tank, bike racks, dumpster pad, utilities and storm drainage systems, sidewalks. The Construction Management is performed by Kunwon CH2MHILL Program Management Consortium (K-C PMC) with FED is responsible for construction surveillance.

KORCOM Headquarters and Public Service Building

The U.S. Korea Command Headquarters will be one the unique facilities in Humphreys. The project has been programmed for the U.S. Korea Command and the United Nations Command staffs, including the Office of the Commander, Deputy Commander, Chief of Staff, Public Affairs, Protocol, Status of Forces Agreement Commission, and UNC Military Armistice Commission. The U.S. Korea Command Assistant Chief of Staff units includes, J1-J6, Command Group, Chaplain, Engineer, History Office, Judge Advocate, Provost Marshal, Safety, and Surgeon. The project was awarded on June 10, 2013 to Hanwha Engineering and Construction with a total cost value of \$74,093,525. The facility is design by Heerim Architects and Planners using restricted access standards as stated in Unified Facility Criteria 3-340-01.

The project consists of a three-story building, a basement with underground utilities, multi-functional protected entrances, space for collective protection system access, energy monitoring and control systems, security lighting/fire detection, suppression system, exterior information systems, emergency generators with a fuel storage facility. The facility will also include a parking lot with approximately 1,096 spaces and a parade ground with artificial turf for ceremonies and other related activities. The project is schedule to be completed on Aug. 29, 2015. Construction management is performed by K-C PMC with FED responsible for construction surveillance.

CY09 YRP, Main Post Club

The project was awarded in Aug. 2013 to Lotte Consortium with a construction cost of \$6.1 million. During construction the existing bowling center (Bldg S-1432) will be renovated into a Main Post Club, including kitchen equipment and parking for 122 vehicles. The Main Post Club will include a banquet room, bar, dance floor, function rooms, full service kitchen including kitchen equipment, gaming area with pool tables and dart, smoking room, storage rooms, admin/office, toilets, com-

munications room, electrical room, mechanical room, and janitor's room. Additional supporting facilities include security lighting, fire protection system and exterior information systems, sidewalks, curb and gutter, site amenities, bike racks, and trash areas/pads. The Main Post Club is scheduled for completion in Nov. 2014.

CY08 YRP, Hospital Barracks

The project was awarded in Sept. 2013 to GS Consortium with a construction cost of \$79 million. During construction 13 buildings will be demolished by GS and ten buildings will be demolished under another contract to make room on the existing garrison requiring coordination among multiple contractors. Several buildings contain asbestos and will require special procedures for removal and disposal. The project is to construct the new three standard designs, eight-story, unaccompanied enlisted personnel housing and heating plant in support of the relocation of Yongsan Garrison. The barracks and the heating plant are needed to adequately meet the base of barracks and the heating plant and support requirements within Humphreys Garrison. The hospital barracks are scheduled for completion in Jan. 2016.



Rendering of CY10 YRP One Stop Processing Center Area

CY10 YRP, One Stop Processing Center Area and Bus Station

The One Stop Processing Center Area and Bus Station projects which were awarded in Sept. 2013 to Keangnam Consortium commands a combined construction cost of \$37,609,020 and is scheduled to be completed in July 2015. This Yongsan Relocation Plan project includes a standard design administrative building, a general purpose (One Stop Processing Center), a bus station, and two non-organizational vehicle parking lots, which includes parking for commercial/transportation and motor pool buses. The main construction consists of one three-story reinforced concrete/steel frame administrative building; other supporting facilities include parking, water, sewer, natural gas and a storm drainage system. The project also includes sidewalks, curbs, gutters, security lighting, heating, ventilation and air conditioning system. All facilities will include a first floor structural slab, pile foundation, utility monitoring and control system, fire protection, alarm sys-

tems, and building information systems. Accessibility for the physically handicapped is provided therefore facility design meets American with Disabilities Act requirements. .

CY09 YRP, Zoekler Station Community Support

The Zoekler Station Community Support construction project is a standard design three single story reinforced concrete/steel frame buildings, which includes the MWR community club restaurant, KATUSA snack bar, and mini-mall/gas station, and is one of the many construction projects in the Yongsan Relocation Plant program was awarded to Keangnam Consortium. Designed by EPG Korea it has a combined construction cost of \$13,916,776 the project has a land area of 41,545 square meters and is scheduled for completion in Feb. 2015. The main Supporting facilities to the Zoekler Station Community Support project are the single story KATUSA snack bar which will provide a replacement facility for the existing KATUSA snack bar facilities on USAG Hum-

phrey. The mini mall/gas station (shoppette) will provide gas and convenient shopping, and food services at the MWR community club restaurant.

CY09 YRP, Eighth Army Vehicle Maintenance Facilities I

The Eighth Army Vehicle Maintenance Facility I (VMF 50) is a complex in new land of parcel 2A. The project began on March 29, 2013 and is expected to be completed on Dec. 5, 2014. The total project cost to date is \$78,480,226 and is being constructed by Daewoo Consortium as part of a four-site package. This project criteria package is based on the Yongsan Relocation Plan and is a vertical construction project. The project will provide company operations facility, readiness module 450PN/300PN, Eighth Army headquarters medium tactical equipment maintenance facility and organizational storage building. Primary facilities include building information system and antiterrorism/force pro-



U.S. Korea Command Headquarters – Pile driving



Rendering of U.S. Korea Command Headquarters

tection. Supporting facilities consist of utility systems connections including water, sewer, electrical, and storm drainage. Additional scope of work includes sidewalks, curbs and gutters, site amenities, bike racks, hazardous material waste shed, fuel oil tank, oil-water separator, POL truck shed, and trash areas/pads. The project consists of constructing three TEMF buildings, three central operations facilities that consist of admin and readiness modules, three organizational storages, three oil storages and three hazardous waste storages. Covered hardstands are required in all readiness modules. Asphalt concrete paved organizational vehicle parking and AC paved parking are required. Quality assurance is performed by K-C PMC, and FED is responsible for construction surveillance.

CY09 YRP, Eighth Army Vehicle Maintenance Facilities II (VMF 60)

The Eighth Army Vehicle Maintenance Facility II (VMF 60) is a complex in new land of parcel 2B-1. The project began on March 29, 2013 and is expected to be completed within the second quarter of FY15. The total project cost to date is \$79,931,947 and is being constructed by Daewoo Consortium as part of a four site package deal. This project criteria package is based on the Yongsan Relocation Plan and is a vertical construction project. The project will provide Company Operations Facility, Readiness Module 450PN/300PN, Eighth Army headquarters medium TEMF and organizational storage building. Primary facilities include building information system and anti-terrorism/force protection. Supporting facilities consist of utility systems connections including water, sewer, electrical, and storm drainage. Additional scope of work includes sidewalks, curbs and gutters, site ameni-



Rendering of CY09 YRP Army Vehicle Maintenance Facility II

ties, bike racks, HAZMAT waste shed, fuel oil tank, oil-water separator, POL truck shed, and trash areas/pads. The project consists of constructing three TEMF buildings, three COF's that consist of admin and readiness modules, three organizational storages, three oil storages and three hazardous waste storages. Covered hardstands are required in all readiness modules. AC paved organizational vehicle parking and AC paved POV parking are required. Quality assurance is performed by K-C PMC, and FED is responsible for construction surveillance.

CY09 YRP, Troop Housing and ZS ADN Eighth Army

The Troop Housing and Zoeckler Station Area Distribution Node (C4I021) is a two structure/two site vertical project in new land of parcel 2A. The project began on May 2, 2013 and is expected to be completed by June 26, 2014 and Aug. 26, 2014, respectively. The total project cost to date is \$9,844,313 and is being constructed by Daewoo Consortium as part of a four-site package. This project criteria package is based on the Yongsan Relocation Plan and is a vertical construction project. The

project will provide a Main Communication Node/Area Distribution Node (MCN/AND) facility at Zoeckler Station and at the Troop Housing area. Each facility will be 4,643 square feet and have government and private vehicle surface parking. Primary facilities will have separate equipment rooms that accommodate separated network requirements for public works, and various telecommunication equipment. Utility systems connections will include water, sewer, electrical, and storm drainage. The Zoeckler Station MCN/ADN includes voice soft switch and voice over Internet protocol gateways for DSN voice communications. Features include: back-up power includes eight-hour direct current power batter plant for voice, redundant standby power generators with two days fuel tank capacity to support the entire facility, redundant transformers along with associated switchgear, and redundant computer room air conditioning units, along with lighting power, closed circuit television, and fire alarm systems. No mass notification system is required for this unmanned facility. Quality assurance is performed by K-C PMC, and FED is responsible for construction surveillance.

Family Housing Resident Office

YRP, Elementary and High School

This is the first vertical construction project in the YRP program and was completed and turned over to the Garrison in 2013. The project includes an 875-student elementary school and a 950-student high school in accordance with the latest Department of Defense Dependent Schools education specifications. The three-story facilities include 215 classrooms, 12 ball fields, multiple playgrounds, green spaces, parking for 624 vehicles, and an area designated for future expansion of the high school. Quality Assurance and contractual oversight was performed by K-C PMC, and FED was responsible for construction surveillance. The project was awarded in June 2011 to the Samsung Consortium at a cost of \$83.9 million. The USAG Humphreys security perimeter was expanded to include the schools and they are currently in use.



Area view of High School (near) and Elementary School (left)

YRP, Eighth Army Barracks

The Eighth Army Barracks is the second vertical YRP project. It consists of five 8-story buildings, each designed for 302 unaccompanied enlisted personnel. Landscaping includes two basketball courts, two volleyball courts, pavilions, bike racks, and a troop assembly area. The project was awarded to Hyundai Engineering & Construction in Oct. 2012 at a cost of \$112 million and is scheduled to be completed in Jan. 2015. The contractor has completed structural work up to the 6th floor, and is installing building utilities up to the third floor of each building.



Eighth Army Barracks

YRP, Child Development Center

This project (CDC010) was awarded to Hyundai Engineering & Construction in Oct. 2012 at a cost of \$8 million. It is scheduled for completion in the summer of 2014. This CDC will accommodate 195-225 children between six and ten years old. It includes a computer lab, a homework center, activity rooms, a demonstration/teaching kitchen, a multi-purpose room for fitness and sports, an administrative area, a staff lounge, and other features. The contractor has already completed 40 percent of the work, including the walls and the roof. They are currently working on interior walls and systems.

ROKFC-in-Kind, Child Development Center

This Child Development Center will accommodate 338 children between the ages six weeks and five years of age, and includes outdoor play areas and parking for 146 vehicles. The project will provide adequate child care support to the military and DoD civilian workforce on USAG Humphreys. It was awarded in Oct. 2011 at a cost of \$10.4 million and is 86 percent complete. Occupancy is not scheduled until mid 2015. Currently, interior work such as dry wall, ceiling, plumbing, and wiring is ongoing.

ROKFC-in-Kind, Soldier Troop Support

This project consists of four different sites, including a Post Exchange branch, a movie theater/auditorium, a community activity center, a post office branch, two chapels, and a recreational shelter facility. The project also includes a multipurpose field complex, which will have a football field, two baseball fields, and a running track. The projects were awarded to Doosan Engineering and Construction, Krima Construction, and Il Kwang in Dec. 2012 for a total of \$41.9 million. Completion date for all projects is scheduled for the second quarter of 2015. The projects are approximately 20 percent complete.

YRP, Elementary, Middle School, and EDIS

This project will consist of an 876-student elementary school, a 1,100-student high school, and an Early Development and Intervention Services (EDIS) facility. The facilities include student class rooms, art classrooms, music classrooms, computer laboratory, physical and occupational therapy rooms, clinical and outpatient rooms, auditorium, cafeterias, supporting facilities, multipurpose athletic fields, multipurpose ball fields,

running track, and vehicular and school bus parking. Quality assurance is performed by K-C PMC, and FED is responsible for construction surveillance. The project was awarded in June 2013 to Daelim Consortium at a cost of \$125 million and is scheduled for completion in June 2015. Currently the contractor is working on the second floor slabs and walls and is approximately 12 percent complete.

MOCT Funded, Army Family Housing-Senior Officers

This project includes construction of seven two-story, two-family duplex houses, for a total of 14 units at 2,900 square feet each. The houses are situated with the AFH060 project to provide a community housing area for colonel (O-6) or commander-level military personnel and their families. Each unit will have four bedrooms, direct entry access from the exterior, individual driveway with a one-car garage or carport, exterior storage, visitor parking, a fenced-in private yard with patios, and a BBQ grill area. The contract was awarded on Oct. 31, 2013 and completion is scheduled for June 2015. The contract value for this project is \$10,183,194. FED is administering the contract.

ROKFC-in-Kind, Simulation Center

This Simulation Facility will bring together a number of training facilities under one roof. The Simulations will include primary facilities for Tactical Skills Trainers including Close Combat Tactical Trainer with I-HITS, Call for Fire Trainer and Stinger Trainer, Fire Support Combined Arms Tactical Trainer, Weapons Trainers, Medical Simulation Training Center, Water Survival Training Center, Humvee Egress Assistance Trainer, and Gunnery Trainers. The project was awarded in Dec. 24, 2012 at a cost of \$33.7 million and is nine percent complete. Completion is scheduled for July 23, 2015. Currently, concrete work is ongoing for the grade beam and the first floor slab.

was awarded in Dec. 18, 2012 at a cost of \$24.1million and is nine percent complete. Completion is scheduled for July 17, 2015. Currently, concrete work is ongoing for the grade beams and the first floor slab.

inspection canopies, a scale house, marshalling area, railhead loading ramps, a deployment equipment warehouse, deployment operations building, and troop shelters. Closely connected to these facilities are the



Rendering of railhead

YRP Railhead

This project is located on the northwest corner of the installation on new land. The Korail spur serving USAG Humphreys crosses the river to the north of the installation and will support both mobilization and sustainment operations. The railhead consists of six spurs arranged in pairs configured for end loading of up to 10 flatcars. One spur is dedicated for fuel operations. The facility also includes a Deployment Ready Reaction Field, which consists of a wash rack, two

fuel loading/unloading facilities at the railhead, bulk fuel storage and related fuel facilities. Quality assurance is performed by K-C PMC, and FED is responsible for construction surveillance. The project was awarded in March 2013 to Daelim Consortium at a cost of \$11.7 million and is scheduled for completion in Jan. 2015. Currently the contractor is working on site work and the Deployment Operations Building, and is approximately 24 percent complete.

NCO Academy and Transient UPH

This project is the Non-Commissioned Officer Academy and KA-TUSA Training Academy (NCOA/KTA). The NCOA/KTA is a single building that includes an administration component, general instruction component, transient unaccompanied personnel housing, multi-purpose component, and parade grounds. It



Aerial view of Simulation Center



Aerial view of NCO Academy and Transient UPH



CY08 YRP Hospital and Ambulatory Care Center

Medical Resident Office

CY08 YRP, Hospital and Ambulatory Care Center/Dental Clinic

The two projects were awarded in July 2012 to Samsung C&T Corporation with a combined construction cost of \$156,812,000. The hospital includes an acute care inpatient facility (hospital wing) and an outpatient clinical/ambulatory care center (clinic wing). The hospital wing has six active levels, basement through level 5, including a mechanical interstitial space at level 3. This wing primarily contains ancillary and inpatient support functions at the lower two levels, with inpatient nursing units at the upper two levels. The hospital has been designed to accommodate 68 inpatient beds with 40 in nursing/multi-care, six in intensive care unit, six in women and infant, two in labor/delivery and 14 in behavioral health. The clinic wing has five active levels, ground through level 5, plus a mechanical penthouse on the roof.

The clinic wing's five levels are primarily dedicated to outpatient clinical services and administration. The Hospital and Ambulatory Care Center is schedule for completion in Sept. 2015.

The Dental Clinic includes 79 total Dental Treatment Rooms made up of Oral Hygiene, General, Pediatrics,

Orthodontics, Comprehensive, Prosthodontics, Endodontics, and Periodontics. Offices for providers in the work areas have been provided. The Dental Clinic is currently on hold and therefore is forecasted to complete sometime in 2014.



CY08 YRP Dental Clinic



Medical Brigade Headquarters

CY08 YRP, 65th Medical Headquarters and CY09 YRP Parking Structure

The two projects were awarded in May 2013 to Hanwha Engineering & Corporation Co., LTD. with a combined construction cost of \$24,461,636. The Brigade Headquarters is currently being built as a two-story building for the 65th Medical Brigade. The building will provide administrative and logistical support to the dental and medical services to the active duty, family members, and other eligible military and civilian population of USAG Humphreys. The parking structure will serve the Medical Complex Hospital, Dental Clinic, Brigade Headquarters and Fisher House. The parking is a five-floor structure and provides vehicular and pedestrian circulation, both horizontally and vertically, and includes the necessary miscellaneous support spaces including elevators, stairs, fire protection, mechanical, plumbing, electrical power, lighting and communication. The structure provides space for

1,000 private vehicles with three entrances/exits – one for the hospital (west), one for the Dental Clinic (east) and one for the Medical Brigade Headquarters and other traffic from the south. The garage is open to the public and is Americans with Disabilities Act accessible. Currently both projects are at beginning stages of construc-



Televideo Center and Swing Space

tion and working on the foundation for both structures. Currently the Medical Headquarters and parking structure are schedule for completion in Jan. 2015.

CY09 YRP, Televideo Center and Swing Space

This project was awarded for construction in May 2013 to Hanwha Engr. & Corporation Co., LTD. for a total construction cost of \$27,000,000. The project provides the new home for AFN-Korea TV and Radio Headquarters and the Morale, Welfare and Recreation cable TV Head End Facility and Business Center at USAG Humphreys. The project includes temporary swing space storage for 35,000 square feet of site during construction. The AFN studio portion will include a network operation center, a sound proof television studio with control room, radio broadcast operations technical control center with four sound-proof radio studios, a network enterprise server room, logistics area with an arms room Command Office area, Engineering and Maintenance Department, News and Production office space with sound booths, an antenna farm, and all required support spaces for a fully operational facility. The facility also includes areas for the satellite TV station equipment storage and for Humvee-based mobile broadcasting systems. The MWR cable TV portion of the Televideo building contains a business office, reception area, conference rooms, storage, executive offices, field office, server room, cable TV head end racks with a depressed slab and flush access flooring, and a satellite antenna farm. The satellite antenna farm will have

security fencing with outdoor lighting and special grounding for all satellite dish pads. Ducting shall be installed from the antenna farm to the head end equipment. All required support spaces for a fully operational facility shall be provided. Currently the Televideo Center is schedule for completion in April 2015.

CY09 YRP, Midtown Medical Facilities

The Midtown Medical Facilities includes two projects the Troop Medical Facility and the Veterinary Clinic which were both awarded for construction on Aug. 2013 to Lotte Engineering & Construction for a total construction cost of \$23,103,286. The Troop Medical Clinic is a two-story building with a gross area of 3,621 square meters. This building will accommodate functional requirements for medical, dental, and counseling for active duty soldiers and their dependents. The first floor will include optometry, audio testing, immunizations, low volume pharmacy, and general exam rooms. The second floor will be dedicated to dental services with general, comprehensive, and oral hygiene Dental Treatment. The Veterinary Clinic is a single-story building with a Gross Area of 1,765 square meters. This building will accommodate functional requirements for veterinary services. It will also include adequate space for dog runs and exercise areas. Veterinary facility activities also include the responsibility for inspecting, monitoring, and testing of human food and surveillance of the human food supply on base. Currently the Midtown Medical Facilities are schedule for completion in April 2015.



Rendering of Troop Medical Facility



Rendering of Veterinary Clinic

P2 Resident Office

ROKFC, Land Development and Utilities Infrastructure – Parcel 2A and Existing Humphreys

The Land Development and Utilities Infrastructure Project is the largest design-build contract ever performed by FED. The \$500 million contract is for land development and utility systems and infrastructure on the existing garrison and in the acquired land for expansion of USAG Humphreys in accordance with the

Yongsan Relocation Plan. The effort has required the hauling, placing and compacting of millions of cubic meters of engineered fill in approximately 570 acres in the land area adjacent to USAG Humphreys designated as “Parcel 2A.” Parcel 2A is divided into 13 sub-zones. The work in each zone is scheduled and sequenced in a manner to support the schedules for vertical construction in the coming years. Parcel 2 Resident Office and the contractor, SKEC, have organized an outstanding project team and have partnered throughout design and construction, to deliver the cus-

tomers with an outstanding high quality product. The contractor continues to construct roads and storm water drainage systems and install utility networks for water, sewer, electric, natural gas, and command, control, communications, computers and intelligence in utility corridors throughout Parcels 2A, 1, K and existing Humphreys. This contract includes making final connections with the local municipal utility providers: Pyoengtaek City for water and sewer, KEPSCO for electricity, and Samchully for natural gas. All lines are now connected, except for water which is scheduled



New underground storage water tank



New box culvert next to Alaska Mining Company restaurant in the existing Humphreys



New switchgear at Beacon Hill



Lift station #18 in the new land (Parcel 2A)

to happen soon with the completion of the new Underground water storage tank project. Work also includes a switching-station and water plant, storage tanks, lift stations and demolition of existing buildings on USAG Humphreys. The contractor demonstrated its commitment to safety with no work related accidents within the past year. P2RO maintains positive relations with the stakeholders and customers to achieve common goals and partners with the contractor to minimize construction delays.

YRP, Land Development and Utilities Infrastructure - Parcel 2B1

The Land Development and Utilities Infrastructure Project is a turn-key contract to provide land improvements and utilities on 820 previously undeveloped acres. The scope of work includes the design of soft soils preparation and placement of four million cubic meters of engineered fill requiring extensive hauling of off-site soils. Its purpose is to up-

grade rice paddies into buildable sites which will sustain pile foundations as required for future vertical structures and prevent differential settlement of horizontal structures. This contract totals over \$150 million and it has been awarded by the Republic of Korea Ministry of National Defense. The project began in fall 2009 and is scheduled for completion in January 2015. With construction of soil improvements, the contractor is also designing and constructing five miles of roads and utility systems for water and fire protection, 2.3 miles of sewer lines, 3.7 miles of electrical power, 3.7 miles of natural gas, and 6.5 miles of C4I (command-control-communications-computers and intelligence). The contractor has nearly completed landfill and has been working underground infrastructure utilities work. Numerous vertical construction projects are already underway in the filled land.

YRP, Site Preparation and Utilities Facility Construction – Parcel 2B2

This turn-key contract provides land improvements and utilities on 605 previously undeveloped acres. The scope of this contract involves the design of soft soils preparation and construction of 3.5 million cubic meters of engineered fill. It includes on-site excavation of about 2 million cubic meters of soils from existing detention basins that have been dried and compacted to be used as engineered fill. Concurrent with construction of soil improvements, the contractor is also designing and constructing five miles of road and utility systems for water and fire protection, three miles of sewer lines, four miles of electrical power, 4.4 miles of natural gas, and 7.2 miles of C4I. This design includes the future site for much of the new “downtown, housing, and the Humphrey’s golf course. This contract totals over \$150 million and it was awarded by the Republic of Korea Ministry of National Defense. The project began in fall 2009 and is scheduled for completion in May 2015. The contractor has started the majority of utility work systems. 2B2 land development is about to be complete.



Constructing C4I duct bank

ROKFC-in-Kind, Warrior Support Area Distribution Node

This project entails construction of a single-story, 395 square meters building with concrete walls, standing-seam metal roof, with a raised floor system in server room. The project will serve as the distribution hub for C4I systems in the Warrior Support area. The project is physically located on the east side of 5th Street between C and E Avenues in zone 2B-1-12. Construction of this \$3 million facility began in early 2012 and scheduled for competition in Sept. 2014. The construction contractor is Fine Construction Co., Ltd. and design was completed by AM-KOR A&E.

The P2B-1 main utilities (water, sewer, and gas) will be complete spring 2014 and underground electrical and roads will be complete in late 2014. As soon as water mains are complete and temporary overhead electrical is established, the project will be tested, commissioned, and turned over for active equipment installation and operation. The scheduled completion date is Sept. 2014.

ROKFC, Downtown Area Distribution Node

The Downtown Area Distribution Node project will provide a facility that will be the focal point for communications networking for the facilities located in the Humphreys Downtown Area, and will provide voice, video, and data services located in USAG Humphreys. The facility will house a SONET node which provides installation OC-48 transport ring topology between the other major communication nodes and area distribution nodes on USAG Humphreys. P2RO and the contractor have organized an outstanding project team that are partnering throughout the construction process, delivering



ADN building 93 percent completion



Server room under construction

the customer an outstanding product and quality of work. The contractor continues to construct the foundation of the facility, exterior site improvements such as electrical and telecommunications manholes, security fencing, and utility connection points. The contractor demonstrated its commitment to safety by achieving zero lost days of work due to work related accidents the past year. P2RO maintains positive relations with the stakeholders and customers to achieve a common goal and partners with contractor to minimize any construction delays.

ROKFC-in-Kind, Wash Facility and Drivers Training Course

This project consists of a new vehicle wash facility and driver training course. The main facility consists

of a wash platform, installation of six wash bays, a modified-standard design multi-purpose training range, unit staging area, supporting facilities, underground utilities, paving, facing and gates, bike racks, and dumpster pad enclosures. The supporting facilities include multi-purpose training (MPTR) range operation center, MPTR range control tower, range support building, ammo breakdown building, latrine, covered bleachers, field dining, guard booth, vehicle maintenance bays, and a pump house. Construction of this project began in August 2013. Currently, only 40 percent of the site has been released for construction with the remaining land still undergoing landfill and grading work. The current project completion date is March 2015, however a pending time extension will push the date several month later.



Foundation work for downtown area distribution node in the existing Humphreys

Pyeongtaek Resident Office

CY10 ROKFC-in-Kind, Airfield Operations Building (AV020)

Phase I of this \$8.8 million project provides a two-story airfield operations building adjacent to the existing USAG Humphreys airfield. This facility will allow improved operational capabilities for users currently operating from out dated facilities. Phase II of this project demolishes the exiting airfield operations building and extends an aircraft taxi lane on the existing aviation intermediate maintenance hangar parking apron. This facility was turned over in Sept. 2013.



Airfield operations building

CY10 YRP, KORCOM Operations Center Phase I

This \$19.5 million project prepares the site to support the Phase II

building construction for the U.S. Korea Command Operations Center. Work includes excavation, dewatering, slurry walls, a building sub-drainage system, tension pile installation, and miscellaneous work. The project also includes maintenance of the de-watering systems, slurry wall and anchoring systems, and geo-technical instrumentation systems for a period of 12 months after project turnover. The scheduled completion date is July 2014.



Site excavation



CY10 HBCT Consolidated Headquarters

FY10 MCA, Airfield Rescue and Fire Station

This \$11.8 million project is to construct two fire stations including one central station and one satellite station. The central fire station, will be a combined airport rescue fire fighting and structural fire station with a 911 Emergency Korea Wide Dispatch Center. This station will have an apparatus room to house fire protection vehicles and a vehicle wash/maintenance bay. There will also be disinfecting facilities for emergency medical equipment. The fire station will have living quarters for 24 fire fighters. Other features included are; laundry storage, kitchen, alarm communication center, emergency operations center, administrative offices and training facilities. Sustainable design and development and Energy Policy Act of 2005 features will be provided. Both facilities were turned over in Dec. 2013.

CY09 ROKFC-in-Kind, Eighth Army Barracks and Dining Facilities

This \$50.2 million project includes one 302-person barracks and two 1,300-person dining facilities. One barracks and one dining facility are located on Site #1 (new land) and one dining facility is located on Site #2 (USAG Humphreys). The barracks has eight floors and is 10,827 square meters which will house 302 soldiers. Each dining facility is 2,401 square meters and will be able accommodate 1,300 soldiers

in three shifts.

The scheduled completion date for the barracks and dining facility on Site #1 is June 2104 and the dining facility on Site #2 is April 2014.

CY10 ROKFC-in-Kind, HBCT Consolidated Headquarters (HQ070)

This \$23.6 million project is to construct a Consolidated Heavy Brigade Combat Team (HBCT) multi-story facility. The facility will be capable of supporting a command group and up to six subordinate battalion staff sections. Special functions of the facility include secured section components consisting of a tactical operations center, secured documents area, and a network operations center. The scheduled completion date is Dec. 2014.

CY10 ROKFC-in-Kind, HBCT Barracks and DFAC (UEH060)

This \$84 million project includes three 302-person barracks and one 1,300-person dining facility. Each barracks has eight floors and is 10,827 square meters which will house 302 soldiers. Each dining facility is 2,401 square meters and will be able accommodate 1,300 soldiers in three shifts. Other facilities included in this project are outdoor basket ball courts and barbecue stands. The scheduled completion date is Nov. 2014.

CY11 ROKFC-in-Kind, Type II Aircraft Parking (AV050)

This \$5 million project provides a parking apron that is constructed with 204 millimeters thick reinforced concrete which will accommodate 16 helicopters. This project also constructs a 275 square feet transmitter building with steel platform for antenna mounting. The transmitter building will facilitate communication on the airfield. The scheduled completion date is Aug. 2014.

CY11 ROKFC-in-Kind, HBCT Vehicle Maintenance Facility I (VMF090)

This \$42.3 project includes two medium tactical maintenance facility buildings, two central operations facility buildings, two readiness buildings, two petroleum, oil and lubricants storage buildings, two organizational storage buildings, two unmanned aerial vehicle storage buildings. Each tactical equipment maintenance facility will include one 35-ton bridge crane. Each COF building and readiness building will have two floors. The scheduled completion date is Oct. 2014.

FY08 MCA, Battalion Headquarters (UEH020B)

This \$5.6 million project provides a 61,548 square feet two-story battalion headquarters facility. The pri-

mary facility also includes special foundation, antiterrorism measures and building information systems. Supporting facilities include exterior utilities and lighting, paving, walks, curb and gutters, parking and above ground walkway connecting to the brigade headquarters facility. The scheduled completion date is Dec. 2014.

FY08 MCA, Brigade Headquarters (UEH020B)

This \$32.3 project provides an 133,343 square feet two-story brigade headquarters complex. Primary facility also includes special foundation, antiterrorism measures and building information systems. Supporting facilities include exterior utilities and lighting, paving, walks, curb and gutters, parking and above ground walkway connecting to the battalion headquarters facility. The scheduled completion date is March 2014.

FY13 MCA, Battalion Headquarters Complex (HQ110)

This \$25.9 million provides an 112,411 square feet battalion headquarters complex. The primary facilities include a standard design battalion headquarters with classrooms, company operations facility with covered hardstand, vehicle maintenance shop, organizational vehicle parking, organizational storage, oil storage, and hazardous waste storage. The scheduled completion date is April 2016.



CY11 HBCT Vehicle Maintenance Facility I

CY12 ROKFC-in-Kind, Physical Fitness Facility (UEH070)

This \$9.4 million provides a two story 40,841 square feet facility which includes two basketball courts, bleachers, climbing wall, locker rooms and reception area on the first floor. The second floor has two racquetball courts and aerobic, combat and cardio exercise rooms. The scheduled completion date is Oct. 2014.

CY11 ROKFC-in-Kind, Fires Support Vehicle Maintenance Facility II (VMF080)

This \$40.5 million project provides a standard medium tactical maintenance facility with a 35,290 square feet vehicle maintenance facility, three 5-8 company operations facilities that are standard design, organizational facility, concrete organizational parking for tracked vehicles, a parking area, a hazardous material storage facility and petroleum, oil and lubricants storage facility. The scheduled completion date is Sept. 2014.

CY12 ROKFC-in-Kind, HBCT Vehicle Maintenance Facility III (VMF091)

This \$22.8 million provides a new vehicle maintenance facility complex consisting of a standard design medium tactical equipment maintenance facility, three to eight company operations facilities, 750-person readiness modules, organizational storage building, unmanned aerial vehicle storage, waste oil storage, hazardous material storage and Portland cement concrete paved organizational parking. The scheduled completion date is Dec. 2014.

CY12 HBCT Vehicle Maintenance Facility III (VMF100)

This \$21.8 million project provides a standard design medium tactical equipment maintenance facility, company operations facility, a 350-person and 450-person readiness modules, petroleum, oil and lubricants storage, organizational storage, and covered hardstand. The scheduled completion date is July 2015.

CY13 HBCT Vehicle Maintenance Facility IV (VMF101)

This \$54.6 million project provides a standard design medium tactical equipment maintenance facility, administration module, readiness building, petroleum, oil and lubricants and hazardous storage, organizational storage, covered hard stand unmanned aerial vehicle storage, guard house, bike rack, and trash enclosure facility. The scheduled completion date is Aug. 2015.

CY 12 ROKFC-in-Kind, HBCT Barracks (UEH070)

This \$76.2 million project provides four standard design 302-person eight-story barracks. Unaccompanied enlisted personnel will occupied the barracks for housing. The scheduled completion date is Dec. 2014.



CY12 HBCT Barracks



FY18 MCA Brigade Headquarters



CY13 HBCT Vehicle Maintenance Facility IV

KOREA RELOCATION PROJECTS

Fiscal Year 2013 saw a continuing increase in the momentum for the substantial Korea Transformation Program. Significant progress continues to be made on numerous projects and task orders, and initiation of new actions. The program consists of the Yongsan Relocation Plan, funded directly by the Republic of Korean government, and the Land Partnership Plan, resourced by various U.S. controlled funding programs; Military Construction-Army, Republic of Korea Funded Construction, ROKFC-in-Kind, major non-appropriated fund and other sources. As of the end of FY13, there were 37 projects valued at \$1.7 billion in design and 67 projects valued at \$4.3 billion under construction. To date construction has been completed on 20 projects valued at approximately \$1.1 billion. Notably was the completion of the Army Family Housing tower.

During this calendar year the district had 17 Yongsan Relocation Plan projects valued at \$650 million in various stages of design. At the end of the year, one Criteria Package was still in the development stage, 10 Criteria Packages had been completed. The design of several critical projects was completed in 2013 to include KORCOM headquarters and Operations Center, CNFK headquarters, Once Stop Processing Center and the 2nd Infantry Division headquarters.

Notable actions this year on the Land Development, Utilities and Infrastructure projects was the incorporation of changes to the Master Plan of 2009-2010 into the 2011 version of the Master Plan. This included update of road designs and main utility routings. The Landscaping master plan was presented by the PMO office for the program.

Construction for the Yongsan Relocation Plan picked up with the award of the Commissary and Exchange and the award of the Railhead (Phase 1) in April. The construction progressed on the high school and first elementary school with final inspections occurring in August. Notable events included the collaborations between KPRO, Construction division and the USAG Humphreys Garrison Airfield Operations office to de-conflict the significant impact of the vast number of cranes operation across the program and the safe operations of the installation airfield for air traffic.

Steady progress has been made this year on the understanding of the process for managing the design and construction of secure facilities. With numerous meetings and briefings, the project development teams for each project have been able to move their projects forward. The small YRP SPARTAN Site B project was completed on Feb. 15 and the notice to proceed was issued on the Communication Center on July 24. The Phase III construction contract was

awarded and the notice to proceed was issued in September.

Significant progress was made on the LPP and others program. There were 20 LPP and others projects valued at \$1.1 billion in various stages of design or construction acquisition.

Personnel changes continued to be a challenge in 2013 and will continue into 2014. In 2013 there were 22 vacancies in the organization; nine new personnel were added to the KPRO team. KPRO hosted four Advancing Minority Interest in Engineering interns during the calendar year. Student ranged from Prairie View A&M University, Howard University, Tennessee State University, and Morgan State University. All are HBCU institutions.

All personnel completed all required DoD mandatory training during the year. Two Prospect training classes were brought to the peninsula for KPRO personnel; P2 Basic and P2 Advanced Scheduling, and two private sector led training courses, Secure Facility Construction, and Medical Facility Construction were conducted. Personnel participated in an installation wide Non Combatant Evacuation Operation (NEO) simulating a mass evacuation of personnel and family and pets from the peninsula.

During the calendar year the office had nine personnel awarded commanders coins at monthly PRB's for excellent

service; seven personnel were recognized for support to the Science, Technology, Engineering and Math support to the Humphreys Elementary School; four Service year pins were presented, one 2013 award for the Modern Day Technology at the Black Engineer of the Year Award Conference and one PM was recognized by USACE for the PM of the Year for 2013. There were two retirements and two promotions for personnel in the section.

The program had numerous VIP visits throughout the year to include the Maj. Gen. Cox, USACE Deputy Commanding General, Military and International Operations, Lt. Gen. Thurman, Commander U.S. Forces Korea and his replacement Lt. Gen. Scaparrotti. The office also participated with Eighth Army personnel for the Eighth Army Rehearsal of Concept drill for movement of forces to USAG Humphreys.

KPRO underwent a Division Command Assistance visit during which the office deputy received accolades from the POD commander for her significant effort put into developing the office SharePoint site to be a repository for program files and historical documents on the construction efforts.



Rendering of UEH040 Barracks



Rendering of SPT140 Morale, Welfare and Recreation building

OSAN AIR BASE PROJECTS

CDIP, 2nd Runway

The construction contract for this CY06 Combined Defense Improvement Project was awarded on April 7, 2011, and is scheduled for completion in Sept. 2014. This \$84 million project will construct a Class B (9,000-foot long, 150-foot wide) concrete runway, 700-foot north of, the existing runway. The project includes 1,000-foot aircraft overruns, 25-foot aircraft shoulders, three connecting taxiways, as well as the relocation of numerous ROK Air Force and Air Defense Artillery facilities. During FY13, the second connecting taxiway was completed, along with approximately 5,000 feet of concrete slip form paving. The concrete for this project also meets the stringent Alkali Silica Reactivity mitigation requirements of the airfield concrete paving specification.

Air Force MILCON, Airman Dormitory 156 Person

The construction contract for this FY12 MILCON project was awarded on March 13, 2012, and is scheduled for completion in Aug. 2014. This \$14.8 million project will provide a new five-story, 156-person Airman dormitory to house permanently-stationed personnel at Osan Air Base. The dorm will provide each occupant with a bedroom, bathroom, and closet. A kitchen area and washer/dryer closet will be shared between four occupants. Over the past year, the contractor completed all exterior work. Interior mechanical, electrical, fire protection, and drywall work is on-going.

ROKFC-in-Kind, Joint Senior Noncommissioned Officer Dormitory

The construction contract for this ROKFC-in-Kind project was awarded on Oct. 14, 2011, and is scheduled for completion in Oct. 2014. This \$50 million project will provide the construction of a new eight-story Senior Noncommissioned Officer dormitory for 277 occupants. Primary facilities include living units with a bedroom, living room, bathroom, kitchen, and washer/dryer closet, multipurpose activity rooms, public restrooms, bulk storage, parking, and a gazebo. The facility will meet all applicable DoD antiterrorism/force protection requirements including minimum standoff distances. During FY13, all exterior work was completed. Interior mechanical, electrical, fire protection, and finish work is on-going.



Joint Senior Noncommissioned Officer Dormitory

ROKFC, 35th Air Defense Artillery Brigade Headquarters and Parking Structure

The construction work for this FY07 ROKFC project started on March 2010 and was turned over to the 35th Air Defense Artillery Brigade in Jan. 2013. This \$31.5 million project consists of constructing the brigade headquarters, parking structure and Army facilities. The brigade headquarters will be five stories above ground housing administrative offices for the brigade's headquarters and headquarters battery and bravo battery, and three Battlefield Coordination Detachment-Korea (BCD-K) administrative offices. Also, the brigade tactical operations center (TOC) will be located below ground for supporting the daily and contingency operations of the war operations center, air defense artillery element, fire direction center, critical communications systems, and providing contingency workspace for the brigade staff. Since the TOC is conceived as a functioning contingency facility, it will also provide contingency living facilities, including rest and ready rooms, latrines and showers, lockers, and storage facilities. The basement floors are semi-hardened and have the ability to withstand a ground shock from a near-miss explosion. The Parking Structure will support the needs

of the new brigade headquarters facility, the existing 7th Air Force facility, the Korea Air Simulation Center, and other nearby office and service facilities. The new parking structure will provide up to 274 parking spaces on five levels. This is an increase of 244 spaces over the existing 30 spaces.

ROKFC, Consolidated Radar Approach Control/Airfield Management/Tower Facility

The construction work for this CY10 ROKFC project started on March 23, 2011 and was completed in May 2013. This \$12.5 million project consists of constructing one-story building for the Radar Approach Control/Airfield Management facility and a nine-story air traffic control tower to be utilized by the 51st Operations Support Squadron. The old air traffic control tower was only 3-story tall. The RAPCON/Airfield Management facility provides working spaces for the administrative functions, aircraft tracking operations, equipment maintenance and repair, storage rooms, toilets and other special spaces for the users such as distinguished visitors and airmen lounges, break room, conference and training rooms. The air traffic control tower includes a control cab on the 9th floor, mechanical rooms, equipment room, training room, ready room/break room, and admin areas will include chief control office and administration.

Repainted runway

ROKFC-in-Kind, EOR Arm/Disarm Pads

The construction contract for this ROKFC-in-Kind project was awarded in June 2012 and was completed one month ahead of schedule in Nov. 2013. This \$3.4 million project provides seven aircraft parking spaces on the west end of the runway to arm and disarm aircraft munitions. Concrete used for this project meets stringent aircraft concrete paving specifications for low Alkali Silica Reactivity. If not mitigated, the reactivity can cause expansion in the concrete leading to concrete failure.

ROKFC-in-Kind, Upgrade HTACC/KCOIC

The construction contract for this \$12.4 million CY10 ROKFC-in-Kind project was awarded on Sept. 3, 2010, with an estimated completion date of April 2014. This project requires construction throughout areas of these two hardened, interconnected facilities to upgrade life/safety/health components and infrastructure, and to improve living conditions in support of 24-hour operations. The work plan is complex due to the need for continuous occupant use during construction, and requires 28 phases (groupings of rooms) in each building to be carried out sequentially. In 2013, all work in non-sensitive information areas was completed.

ROKFC-in-Kind, 36th Fighter Squadron Operations/Aircraft Maintenance Unit

The construction contract for this CY11 ROKFC-in-Kind project was awarded on Nov. 3, 2011, and is scheduled for completion in Sept. 2014. This \$15 million project will provide a semi-hardened building to house the 36th Fighter Squadron's Operations and Aircraft Maintenance Unit. It is where the pilots will plan, brief, and de-brief flight missions. The facility includes a new chemical-biological collective protection system, reinforced concrete foundation, thickened floor slab and thickened concrete walls and roof, fire detection/suppression system, stand-by generator, fuel storage tank, infrastructures for aircraft communications, parking spaces for building occupants, and space for a small gym. During the past year, all major concrete placements (over 1,000 concrete trucks worth) was placed. Interior mechanical, electrical, fire protection work is on-going.

OMAF, Repair Airman Dorms Building 1365 & 1366

This \$8.5 million project consists of renovating the interior of two dormitories located at Building 1365 and Building 1366 for the U.S. Air Force. The contract was awarded on July 22, 2011 to Fine Construction Company, Ltd and was completed in April 2013. These

dormitories are used to house Airmen that are assigned to Osan Air Base. Each facility is a three story building with approximately 60 living spaces on each floor. The scope of work consists of removal and repair and/or replacement of floors, ceilings, walls, and cabinets. This project also replaced all major mechanical equipment such as boilers, air handling units, and fire protection systems.

OMAF, Repair Main Runway

Over the period from Sept. 20, to Oct. 6, 2013, the main runway at Osan Air Base was closed for repairs. During this time, no aircraft were able to fly into or out. Our new paving IDIQ contractor replaced 20 Priority #1 full depth concrete slabs using Type III high-early concrete. Additionally the contractor repaired over 100 cracks and concrete spalls on the runway. All work was completed on time without any impacts to returning aircraft.

FY10 Air Force DLA MILCON, Type IV Hydrant Fuel System

The construction work for this FY10 MILCON project, funded by the Defense Logistics Agency, started on Aug. 27, 2010 with a scheduled completion in Nov. 2014. This \$19.3 million project includes replacement of the existing



Repair of main runway

JP8 fuel hydrant system with a Type IV hydrant system (1,800 gallon per minute maximum capacity) consisting of two 70,000 barrel (2,940,000 U.S. gallons) cut-and-over operating tanks, a 6,500-foot long, 10-inch diameter fuel hydrant piping loop, ten aircraft fueling stations, filter building, and other associated equipment and systems. The first 2.9 million gallon tank, filter building, and five aircraft fueling stations were commissioned and turned over to the base this past year.



36th Fighter Squadron Operations/Aircraft Maintenance Unit
Second floor concrete placement



Rendering of 36th Fighter Squadron Operations/Aircraft
Maintenance Unit



Hydrant Fuel System, Filter building

AREA IV PROJECTS

YRP, Commander Naval Forces Korea Headquarters, Busan

This project is for the construction of the new Naval Facility Headquarters located on the Republic of Korea Navy Fleet Command base in Busan. This \$6 million project is part of the Yongsan Relocation Program managed by the Republic of Korea. The project was awarded in Aug. 2013 with an anticipated completion date of March 2015.

OMA, Replace Concrete Paving, Busan Storage Center

This concrete paving project was finished in Aug. 2013 at a cost of \$2.6 million. This project included removal of existing asphalt concrete pavement, excavating/backfilling with suitable materials and placing new concrete pavement for the Area 30, 32 and 46. The work also includes removal of existing concrete ditches, relocation of fire hydrants, construction of new drainage structures, and installation of closed-circuit television system at the main gate.

ROKFC-in-Kind, Replace Aircraft Revetments, Yecheon Air Base

The Revetments project at Yecheon Air Base was finished in Nov. 2013 at a cost of \$5.5 million. The general scope of the project consisted of the removal and replacement of deteriorated metal bin revetments in the designated Combat Aircraft Loading Area

for the Helicopter Mine Counter Measures Squadron (HM-14). This included 450 meters of long wall and 40 short wall revetments. The IDT revetment is a prefabricated steel wall unit constructed from corrugated metal panels connected with stainless steel pins, formed into six course assemblies of varying, thickness, and shapes. The new revetments will be configured to meet explosive safety requirements and meet the clearance requirements for the Joint Strike Fighters.

FY11 DOD MILCON, Health and Dental Clinic, Camp Carroll

The Health Clinic and Dental Clinic at Camp Carroll, U.S. Army Garrison Daegu was completed in May 2013 at a cost of \$10.2 million. The user moved in and opened the clinic on Dec. 16, 2013. This two story facility includes civilian employee health



Barracks and Tactical Equipment Maintenance Facility, Camp Carroll

preventative medicine, after hours walk-in care, radiology, laboratory, pharmacy, dental clinic, and other support facilities. General site improvements include roads, sidewalks, utilities, and services to support the new facility. S-137 the existing dental clinic (2,800 square feet) will be demolished under this contract in the first quarter of calendar year 2014.

Defense Business Operations Fund, DDD-K Projects, Camp Carroll

The various operations and maintenance project consisted of a major renovation to the Defense Logistic Agency's facilities. Also within the scope of this project were building additions to three of the facilities. Work consisted of changes to room configurations, renovation to building interiors and infrastructure, additional office space, and an upgrade of the site utilities. The project was completed in early 2013 at a total cost of \$4.6 million.

FY12 Army MILCON, Barracks and Tactical Equipment Maintenance Facility, Camp Carroll



Command Naval Forces Korea Headquarters, Busan



Health and Dental Clinic, Camp Carroll

The construction work for this FY12 MCA construction project started on Feb. 24, 2012. The motor pool was turned over on Aug. 2013 with the barracks scheduled for completion Oct. 7, 2015. This \$27.6 million project includes a 17,450-square foot motor pool, and the barracks will be a 302 person standard 8-story building.

FY11 Army MILCON, Upgrade the Electrical System and Construct Natural Gas System, Camp Walker

This multifaceted contract provided the complete upgrade of the electrical systems and installed a conversion from fuel powered to natural gas power for hot water and heating for the installation. The electrical substation and distribution system included transferring from 5.7 kilovolt-amperes to 22.9 kilovolt-amperes including underground electrical distribution lines, ducts, manholes, pad-mounted transformers, capacitors (to maintain the power factor, over-current, thermal, and ground fault protection), voltage regulators, line switches, switch-gears, and pad mounted junction boxes. The upgrade converted the overhead distribution lines to an underground distribution system. Natural gas construction includes all gas distribution lines, regulators, leak detectors, automatic meters, gas

equipment facilities, connection fees, replacement/modification of existing fuel oil burners/heaters, connection to boilers/heaters, and removal of existing heating fuel oil lines. Supporting facilities include restoration of paving, sidewalks, curbs and gut-

ters; removal of paving, sidewalks, curbs, gutters, poles, wiring, and transformers and associated hardware. This \$19 million project began in May 2011 and was substantially completed Sept. 2013.



Barracks and Dining Facility, Camp Henry

CHINHAE & MUJUK

PROJECTS

ROKFC-in-Kind, 110-person Barracks, Camp Mujuk

The construction of 110 barracks project with a cost of \$3.4 million began in Sept. 2012 and will be turned over to the HM-14 detachment in early 2014. This facility is located in the west part of Camp Mujuk. This two-story facility includes eight 8-person large bunk rooms at the first floor and two eight-person large bunk rooms, five three-person units and eight single units at the second floor. Officers and females will be located upstairs. General site improvements include roads, sidewalks, permeable unit pavers and utilities to support this barracks building. To save energy this facility adopted the geothermal system which will be operated for the interior heating system.

ROKFC, Fleet and Family Town Center, Chinhae

The construction work for this Republic of Korea funded project started in Nov. 2010 with a completion date in 2014. This \$18.6 million project will co-locate most of the family support functions for Chinhae under one roof. This three-story facility will include the post office, bank, Navy exchange, commissary, training center, lounge and theatre training area.



Camp Mujuk Barracks



Fleet and Family Town Center, Chinhae

Natural Gas Station and Motel Pool, Chinhae

KUNSAN PROJECTS

FY11 MILCON, Distributed Mission Training Flight Simulator

This project constructed a new Distributed Mission Training Flight Simulator. This replaces a facility built in 1972 that was not large enough to support the four new simulators. The new facility is about 60 percent larger, provides capabilities not available elsewhere on the peninsula, and replaces the Air Force's need to use the Misawa Air Base, Japan simulators. The contract was awarded on Feb. 15, 2011 for about \$6.5 million, and the groundbreaking ceremony was on Aug. 22, 2011. The new building was turned over to the user on Jan. 31, 2013. L3 Communications started installing the simulators in June 2013, and the ribbon cutting was on Dec. 12, 2013.

complete at the end of Dec. 2013, and the contract completion date is Dec. 20, 2014.

FY13 DODM, Kunsan Medical/Dental Clinic Addition

This project is to construct a 15,000-square foot addition to the Kunsan Medical/Dental Clinic. The current facility at Kunsan is 27 percent undersized by DoD standards. This project will add needed space to the facility at Kunsan Air Base, and allow the 8th Medical Group to consolidate services under one roof. The contract was awarded on June 5, 2013 for about \$8.5 million, and the ground breaker ceremony was on Sept. 24, 2013. The project completion date is May 12, 2015 and is approximately 11 percent complete at the end of Dec. 2013.

CY12 ROKFC-in-Kind, Munitions Storage Igloos

This project is to construct 14 new munitions storage igloos. The project is approximately 42 percent

FY12 OMAF, Demo/Consolidate B511/B512 and B950/954

This project was to consolidate functions of the 8th



Distributed Mission Training Flight Simulator

Communication Squadron. The demolition/consolidation of B511/B512 and B950/B954 are two separate projects that were combined into a single contract. The project included the demolition of B512 and B954, a 2,765-square foot addition to B511, a 2,765-square foot addition to B954, and renovation work inside of building B511 and B950. The renovation work included replacement of deteriorated architectural element and finishes, latrine fixtures, lighting fixtures, and fire detection. The contract was awarded on Aug. 30, 2012, for about \$2.1 million. The buildings were completed on Nov. 5, 2013.

Job Order Contract

Eighteen Job Order Contract Delivery Orders were completed and turned over to the Air Force in FY13. The orders include three dorm renovations, mechanical system upgrades, replacement of three storm damaged roofs, installation of taxiway end lights, and T-splice repairs on the high voltage feeder line. The total value of the completed orders was about \$10.5 million.



Medical/Dental Clinic Addition



Demolition/Consolidation of B511/512



Demolition/Consolidation of B950/954

ENGINEERING DIVISION

Cost Engineering Branch

Design Branch

Engineering Services Branch

Geotechnical and Environmental Engineering Branch

Korea Relocation Technical Support Branch

Technical Review Branch

Cost Engineering Branch

In FY13, Cost Engineering Branch continued to work on implementing the Corps of Engineers estimating software to be used for Korea projects. The data base of Korean material approved for use on U.S. funded projects in Korea was updated with the new approved material lists provided by the Specification Section in Design Branch. The transformation to the Micro-computer Aided Cost Estimating System 2nd Generation (MII) is slowly being phased in to the cost projects.

Cost Engineering Branch completed 29 Independent Government Estimates for military construction projects including Military Construction Army, Military Construction Air Force, Operations and Maintenance Army, Operations and Maintenance Air Force, Republic of Korea Funded Construction, and Indefinite Delivery Indefinite Quantity projects peninsula wide totaling \$293 million. In addition to IGEs for new projects the branch completed 38 IGEs for Job Order Contracts and Basic Change Documents totaling \$46 million and 123 contract modifications. The branch conducted two Value Engineering studies for various military construction projects resulting in anticipated cost savings of \$1 million.

Design Branch

The Design Branch comprises 37 architects, engineers, engineering technicians, specifications writers, and administrative assistants who continue to provide high quality services of producing designs and contract solicitation packages for construction. Of particular significance in CY13 are the following design projects.

CY14 ROKFC-in-Kind, Rigging Facility, Gimhae Air Base

The Design Branch quickly responded to provide the design of a joint-use facility satisfying all the requirements of the Air Force Special Operation Command and the Special Operation Forces Korea (SOCKOR) for the rigging mission during peacetime and wartime. The original building was damaged severely by typhoon during the monsoon season in 2003 and needs significant repairs to be able to support the rigging operation which includes a new drying tower for G-11 Cargo Parachute. The building for this facility will serve maintaining, repairing, and storing parachutes. This is the only USFK rigging facility in the Korean peninsula and the facilities will provide the operational capabilities of 7th Air Force and SOCKOR to rig airdrop bundles for use during exercises or wartime in the Korea theater of operations.

CY14 ROKFC-in-Kind, Dining Facility, Kunsan Air Base

The \$17.9 million project is to construct a new U.S. Air Force dining facility serving 2,105 personnel with three dining turnovers during a meal period at Kunsan Air Base. As the project was not provided with a standard design to follow, this Dining Facility required a design prepared from scratch that included a new kitchen design. Close and intensive coordination with kitchen specialists and interior designers lo-

cated in the U.S. kept the design progress on time and successful. Standing seam metal roofing is required to entirely cover the large single story building, and this presented quite a challenge; a metal roof covering this large and sprawling single story building could easily result in a huge and mundane mass without any charac-

teristics. With careful design with roof shapes, the overall exterior mass of the building was rendered inviting, pleasant, and also comfortable to the human scale, which is quite appropriate for a building functioning as the center of the community.



Rendering of Kunsan Air Base Dining Facility

Engineering Services Branch

The Architect/Engineer Contract Support Section has continued to provide a high quality AE negotiation services in spite of fluctuating workload as the district was experiencing declining design contracts in the Yongsan Relocation program and military construction programs. Headed by Robert Kiehm, P.E., who has a total of 48 years of engineering experience in the government, the four-person team consisting of a section chief, two AE contract negotiators and a contract specialist has been able to accomplish all organizational missions in the face of dynamic workload by

being flexible and maintaining a high degree of professionalism. Their dedication and attention to details have played a vital role in awarding most design contracts on time, especially toward the fiscal year end as more year-end-sensitive project requests were received from various customers. By the end of FY 2013, a total of 93 contract actions including modifications with the total contract award amount over \$26 million were negotiated and awarded. The program team consisting of three outstanding program analysts has also provided exceptional services for the Engineering Division in accomplishing all financial services including initial budget/mid-year budget submissions, travel certifications, training management,

awards processing and Corps of Engineers Financial Management System transactions. By working and communicating closely with all members of the division, the team has been able to manage over \$28 million worth of the division budget in this fiscal year. For FY14, our goal is continually support the Yongsan Relocation and Land Partnership Plans and ROKFC-in-Kind programs and by providing top-notch AE contract services and budget management services in support of the division and the district. The branch will continue to monitor its activities for optimum performance and will develop continuous improvement methods through the use of Quality Management System to satisfy all mission requirements.

Geotechnical and Environmental Engineering Branch

The branch was well occupied in CY13 in support of the district's robust military design and construction program, as well as performing projects directly supporting our military installations. All four sections (Geotechnical, Environmental, Water Well Services, and Data Management) contributed significantly to successful mission completion and customer support during the year. Our project execution team consisted of highly talented in-house professionals, skilled technicians, and dedicated administrative staff, assisted by multiple Indefinite Delivery Indefinite Quantity contracts and reach-back U.S. Army Corps of Engineers resources. In FY13, the branch completed a total of 284 geotechnical, environmental, water well, geospatial, and laboratory/field testing projects, with a final balanced operating

budget of \$8 million. The branch provided in-country support to Engineer Research and Development Center for railroad inspections on Air Force installations, teamed with USACE in conducting environmental evaluations of U.S. military installations in Japan for Defense Logistics Agency, assisted with geospatial data analysis/presentation needs during contingency exercises, and collaborated with Engineer Research and Development Center to evaluate the A-511 Airfield at Humphreys Garrison during CY14. The branch continued to advise the state department on site conditions and project boundary issues related to the new U.S. Embassy Compound to be constructed on Camp Coiner in the future.

In the area of community outreach, branch members have been key participants in initiating and imple-

menting the district's educational partnership agreement with Department of Defense Dependent Schools Korea, which centers on the Science, Technology, Engineering, and Math program. The branch organized and conducted several STEM-related events with high/middle schools during CY13, which included classroom presentations, laboratory tours, STEM Shadow opportunities, a toothpick bridge design contest, and technical support for a high school student's environmental research project. Additional STEM-related events have been coordinated with the schools to take place during the upcoming National Engineers Week (Feb. 16-22, 2014) and the school's STEM Week in April 2014.

The Geotechnical Section completed numerous challenging site investigations and foundation/pave-

ment analyses in support of projects designed by the district's Status of Forces Agreement architect/engineer firms and Design Branch. Project examples include: Repair Main Runway, and Construct Munitions Storage Area, Osan Air Base; Construct Third Generation Hardened Aircraft Shelters, Kunsan Air Base; U.S. Korea Command Headquarters and Operations Center, and Type II Aircraft Parking Apron and Taxi lanes, USAG Humphreys; Tunnel Stability Assessment, and Stabilization of Portal Rock Fall Area, Command Post Tango; USFK-MND Joint Boundary Survey, Various Locations; Repair/Upgrade Rigging Facility, Kimhae Air Base; SOCKOR Relocation, Ichon Air Field; and Commander Naval Forces Korea Headquarters Facility in Busan. The Command Post Tango projects enabled staff geotechnical engineers to expand technical capabilities in rock fall and tunnel stability analyses and related protective designs, with the unique opportunity to work with expert tunnel consultants. The section conducted quality assurance and construction surveillance during land development at USAG Humphreys, testing fill materials, surveying to verify final grades and establish property boundaries, and validating completion of ground settlement prior to facility construction. Other construction support activities included oversight and review of pile foundation installations, testing of construction materials, and inspection and validation of contractor quality control laboratories and concrete batch plants. The section assisted in the evaluation and correction of deficiencies determined during construction (e.g. warehouse floor slab at Camp Carroll, and vehicle wash facility at Rodriguez Range), and inspected the Korea-owned levee bordering the USAG Humphreys land development area. The branch Materials Testing Lab was inspected by USACE Materials Testing Center in

June 2013 and was successfully re-validated for continued professional materials testing services in support of design and construction activities. State-of-the-art survey instruments procured at the end of FY13 will help ensure continued high quality survey products for district projects.

The Environmental Section played an important role in the district's project design process by determining if ground contamination is present on project sites, and if so, providing guidance on any needed mitigation effort. Typical report submissions included a Preliminary Report of Environmental Findings and an Environmental Site Investigation Report. Example design projects with site contamination concerns include: FY13 Replace Elementary School, Osan Air Base; FY14 Middle/High School, Camp Walker; and Signal Motor Pool, Camp Henry. The section followed through during construction with technical support on projects with site contaminant cleanup requirements, such as the Hospital and Dental Clinic at Humphreys. Section staff completed a number of asbestos building surveys and provided support on asbestos abatement projects, with bulk and air samples analyzed by the in-house certified asbestos testing laboratory. Support was provided directly to installation customers by preparing environmental baseline surveys and various environmental management plans (e.g. Endangered Species, Spill Prevention, Landfarm Operation and Maintenance, Asbestos and Lead Hazard, Wellhead Protection, and Ozone Depleting Substances), and monitoring storm water/waste water discharge conditions. Technical input was given to the USFK Environmental Office regarding the Noksa-pyong subway contamination issue, adjacent to USAG Yongsan. The Section facilitated the award of a new multi-year Environmental IDIQ

contract to two firms, and is overseeing the execution of two delivery orders on an existing Construction IDIQ contract for removal and replacement of petroleum, oil and lubricants storage tank systems on Air Force bases in Korea. Annual environmental and safety training was arranged for district staff and external organizations as required to maintain staff certifications (e.g. Hazardous Waste Operation and Emergency Response, and Asbestos Hazard Emergency Response Act certifications). Recertification actions were initiated in late CY13 for the Branch Environmental Testing Laboratory through the American Industrial Hygiene Association (asbestos testing) and the National Environmental Lab Accreditation Program (chemical testing).

The Water Well Services Section provided highly professional and timely services to USFK installations for the maintenance and development of groundwater resources, having been responsible for these mission-critical operations since 1966. During FY13, the Section conducted preventative and emergency maintenance on a total of 149 wells on 25 Army, Air Force, and Navy installations, to include USAG Humphreys, providing approximately six million gallons of water per day for basic facility use. Section staff assisted the Environmental Section in conducting aquifer testing and groundwater sampling in support of hydrogeologic investigations and preparation of wellhead protection plans for Camp Walker and Camp Carroll. The section drilled an additional well at the Rodriguez Range for non-potable facility use. Section staff also applied their drilling and sampling expertise to support various geotechnical and environmental site investigations throughout CY13.

The Data Management Section supported the branch, the district, and



Environmental Section employees advise Danari White (center), a senior at Seoul American High School, for her school environmental research project.

customer organizations by providing expert geospatial data analyses and products, sharing geospatial data, promoting database standards, and managing the District Geographic Information System. During CY13, the section delivered Geographic Information System-related products to external organizations as follows: annual GIS database maintenance and training for Environmental Division, USAG Yongsan; fuel tank inventory survey and GIS data update for Fleet Activities Chinhae and 8th Civil Engineering Squadron, Kunsan Air Base; archiving environmental investigation project reports and GIS data collection for Army Environmental Command through Army Installation

Command-Pacific; and environmental data collection and GIS update for USAG Daegu. The section shared geospatial data and collected imagery with the GeoBase team at 7th Air Force and 51st CES, K-C PMC, 6th Ordnance Battalion, USFK Theater Master Planning, and J4 USFK. Section members developed GIS imagery products for Forward Engineering Support Team use during the Ulchi Freedom Guardian contingency exercise. The section was responsible for reviewing all district design products for compliance with required geospatial database standards, with a future plan to also review construction as-built drawings for geospatial database compliance and to prepare specific

as-built drawings for ultimate GIS input. Essential geospatial support was provided in support of branch project execution by ensuring that the branch GIS is kept up to date with acquired project data and imagery and by generating specific geospatial products that greatly enhance the analytical process. The section also conducted quality assurance oversight of the branch Materials Testing and Environmental Testing Laboratories, and continued to develop and maintain branch project management databases which have earned best practice evaluations during past external ISO 9001 district audits.

Environmental Design documentation throughout the design process to ensure that the new buildings will be environmentally friendly. We help ensure quality and timely delivery of design submittals that are within budget throughout the design process.

FED is responsible for preparing 100 percent designs on all MILCON, ROKFC and ROKFC-in-Kind projects.

For most YRP-funded projects, FED prepares Criteria Packages (30 percent design) or Enhanced Criteria Packages (60 percent design) which go to the ROK government who in turn contracts out to ROK local Architect/Engineer firms to prepare detailed designs up to 100 percent completion. KRTSB works with the ROK design team during the detailed-design phase.

Korea Relocation Technical Support Branch

In 2013 Korea Relocation Technical Support Branch has been fully engaged in all Yongsan Relocation Program, Land Partnership Plan, Military Construction, Republic of Korea Funded Construction, ROKFC-in-Kind, and Operation and Maintenance projects located in USAG Humphreys. KRTSB provided design management and served as the primary point of contact on design-related issues for these projects, working hand-in-hand with Korea Programs Relocation Office project managers. The KRTSB team consists of 18 design managers, two engineering support assistants, a program analyst, an engineering technician, and a branch chief. Our main office is in the FED Compound with a forward office at the Program Management Office at Pyeongtaek.

During the 2013 calendar year, KRTSB continued to focus on completing Criteria Packages with a total Estimated Construction Cost of \$160.2 million, ROKFC-in-Kind and ROKFC designs with a total ECC of \$385.7 million. KRTSB design managers also provided the interface between U.S. reviewers and the Korean architect-engineers during development of the detailed designs of the Criteria Packages that were completed in 2012. These included projects such as the 65th Medical Brigade headquarters and parking garage, brigade's Barracks, the Tele-video Center, the Middle and Elementary Schools and others. The designs of several critical SA2015 projects were completed in 2013 including the U.S. Korea Command Headquarters, U.S. Korea Command Operations

Center, Eighth Army/Commander Naval Forces Korea/U.S. Army Installation Management Command-Pacific Headquarters, One Stop Processing Center and the Second Infantry Division Headquarters. The U.S. Korea Command and Eighth Army/Commander Navy Region Korea/U.S. Army Installation Management Command-Pacific Headquarters projects were two Enhanced Criteria Packages that were developed into detailed designs by Korean architect-engineers. The U.S. Korea Command Operations Center and 2nd Infantry Division Headquarters were 100 percent U.S. designs. Other 100 percent U.S. designs that were completed in 2013 included the Commander Naval Forces Korea Headquarters in Busan and the Downtown senior living quarters among others. For the ROKFC-funded and YRP-funded Land Development, Utilities, and Infrastructure projects, we have been involved in updating the designs for roads and main utility lines to incorporate the 2011 USAG Humphreys Master Plan.

KRTSB's mission is to manage the designs prepared by Status of Forces Agreement Architect/Engineer contractors and district in-house staff. We gather applicable technical criteria and standards and determine technical support requirements. We coordinate technical review of design submittals and track and facilitate resolution of review comments from the various stakeholders, including U.S. Army Corps of Engineers Centers of Standardization, Centers of Expertise, and Hawaii District Regional Technical Center. We oversee the Leadership in Energy and

Technical Review Branch

In FY13, the Technical Review Branch made significant contributions in its continued support of the Far East District's military design and construction mission and contingency readiness program. In total, over 290 quality assurance design reviews were performed, spanning various programs to include the Yongsan Relocation Plan, Land Partnership Plan, Republic of Korea Funded Construction-in-Kind, Operation and Maintenance and Military Construction-in-Kind Army projects, and special project such as Special Operations Command Korea relocation project. By the end of FY13, most of the Criteria Package production was completed, and detail drawings developed by the local architect-engineers were turned over to the construction contractors. In addition, the branch provided design management services and lent their technical expertise in various forums, exhibitions and workshops. Implementation of an electronic review tool contributed in promoting better, efficient review processes and communications between all parties involved.

In an effort to promote localization of off-shore construction materials required for the U.S. Forces Korea base relocation program, 2013 Local Construction Materials Exhibition was held in at Seoul Trade Exhibition and Convention, Seoul on May 7, 2013. In this exhibition, over 90 local construction materials manufacturers participated and displayed approximately 120 of their products. Ministry of National Defense U.S. Forces

Korea Relocation Office, Far East District, Land and Housing, Project Management Consortium, the branch and local materials manufacturers, and foreign construction companies made collaborative efforts in seeking qualified local materials that satisfy requirements of the DoD facility standards and criteria. Afterward, the branch published an updated approval local materials list every three months upon continued collaborative review processes among Quality Assurance Branch, specifications department and the branch. The branch also participated in the monthly C4I materials review meetings to further discuss this issue.

The branch collaboratively worked with Regional Technical Center in sharing workloads, the latest technical guidance and other code requirements. The branch frequently sought technical guidance and expertise from the Center of Expertise and Center of Standardization in order to provide most accurate and up-to-date code and criteria information. TRB often assisted the district and Program Management Consortium project managers and design managers in verifying appropriate requirements and applicable codes for each and every project.

To resolve the technical issues at the construction sites, technical reviewers attended the site visits, job-site inspections and clarified the technical requirements and requests

for information to avoid construction delays and increase in project cost. The branch was also instrumental in performing construction submittal (F-4025s) and shop drawing reviews as well as pre-final inspections for fire protection and structural engineering applications to ensure safe and usable facilities.

Lastly, Design Management Section successfully assumed a leadership role as design managers by earning Contracting Officer's Representative appointments for various funded projects throughout the Korean Peninsula mainly Area I through IV, Co-locate Air Base, Kunsan Air Base, and Osan Air Base. The section managed thirty-five design projects to include twenty-one CY13 and CY14 ROKFC-in-Kind projects, managed design review comment close-out processes by conducting On Board Reviews, performed as Contracting Officers Representative, evaluated architect/engineer performance, and performed partial and final payments to architect/engineers. Additional design management responsibilities included processing over 260 requests for information from resident offices. This involved close coordination with Status of Forces Agreement architect/engineers and Engineering Division's in-house design branch. The section attended monthly line item review meetings with departments of public works and base civil engineers to provide updates on outstanding issues and current status of projects.

CONTRACTING DIVISION

Contracts Branch: Construction Section

CY07 YRP, SPARTAN Site A

Construction of a U.S. Department of Defense Sensitive Compartmented Information Facility. This new 10,500 square foot one-story building contains administrative office space, data center, and utility plant with medium voltage electric power transformer, generators, uninterrupted power supplies, chillers, and fire protection system. Project also includes the installation of anti-ram barrier, perimeter fencing, and other measures to protect the new facility in accordance with DoD Antiterrorism/Force Protection requirements.

- Contractor: ECC International, LLC
- Date of Award: Feb. 19, 2013
- Total Contract Amount: \$21,778,166

CY10 U.S. Korea Command Operations Center (Site Preparation Phase), USAG Humphreys

The site preparation phase includes excavation, dewatering, slurry walls, building subdrainage system, tension piles and miscellaneous site work. Floor area: Approximately 20,400 square meters. Excavated volume: Approximately 442,500 cubic meters. This construction phase will prepare the site to support the building construction phase within the excavated site.

- Contractor: Daelim Industrial Co., Ltd.
- Date of Award: May 10, 2013
- Total Contract Amount: \$19,513,339.45

FY13 MCA, Battalion Headquarters Complex, USAG Humphreys

Construct a standard design Battalion Headquarters Complex. Primary facilities include a standard design Battalion Headquarters with classrooms, Company Operations Facility with covered hardstand, Vehicle Maintenance Shop, organizational vehicle parking, organizational storage, oil storage, and hazardous waste storage. Sustainability/Energy Measures will be provided. The facilities will include installation of Intrusion Detection system, Building Information system, special foundations, and connection of the Energy Monitoring and Control system and fire/smoke detection and suppression systems. Supporting facilities include site development, utilities and connections, lighting, paving, parking, walks, curbs and gutters, storm drainage, information systems, landscaping, signage and oil water separator. Heating and air conditioning will be provided by self-contained system. Measures in accordance with DoD Minimum Antiterrorism for buildings standards will be provided.

- Contractor: Hyosung Corporation
- Date of Award: May 14, 2013
- Total Contract Amount: \$25,852,760.80

FY13 DoDEA, Replace Elementary School, Osan Air Base

Construct a 21st century criteria compliant two-story elementary school with a single story high bay area to include an auditorium and multipurpose room (gym/cafeteria.) The project includes site improvements such as fencing, paving, landscaping, covered walkways, exterior lighting, utilities, playground systems, staff and visitor parking, internal site circulation for buses and cars, service drive and delivery area.

- Contractor: Ilsung Construction Co., Ltd.
- Date of Award: Sept. 30, 2013
- Total Contract Amount: \$29,187,221.80

FY13 DoDM, Medical/Dental Clinic Addition, Kunsan Air Base

Construct a new Medical/Dental clinic addition at the existing Kunsan Air Base to provide outpatient, ancillary services, administrative functions, bioenvironmental engineering, mental health, and education and training spaces. Supporting facilities include utilities, site improvements, parking, access roads, signage and environmental protection measures. The project will be designed in accordance with the criteria prescribed in Unified Facilities Criteria 4-010-01, DoD Minimum Antiterrorism Standards for Buildings, barrier-free design in accordance with DoD, "ABA (Architectural Barriers Act) Accessibility Standard" and Deputy Secretary of Defense Memorandum "Access for People with Disabilities" dated Oct. 31, 2008, Evidence Based Design principles, Medical Health Standards world class checklist requirements (version 2.0, 2011), Executive Order 13514, DoD Strategic Sustainability Performance Plan, Energy Policy Act of 2005, and other applicable codes and regulations. The project will be designed to Leadership in Energy and Environmental Design (LEED) 3.0 Silver Certified rating standard.

- Contractor: Yuil Engineering & Construction Co., Ltd
- Date of Award: June 5, 2013
- Total Contract Value: \$8,544,049.17

FY13 DoDM, Hospital Addition/Alteration, Osan Air Base

Construct an addition and alteration to the existing Osan Hospital to provide a modern facility for delivering medical care to members and beneficiaries at Osan AB. The new addition and altered areas will provide family practice, pediatrics, OB/GYN, optometry, immunizations, physical therapy, dental clinic, warehouse, and administrative support functions for the 51st Medical Group. Supporting facilities include utilities, site improvements, parking, access roads, signage and environmental protection measures. The project will be designed in accordance with the criteria prescribed in Unified Facilities Criteria UFC 4-510-01, DoD Minimum Antiterrorism Standards for Buildings, UFC 4.010-01, barrier-free design in accordance with DoD, "ABA (Architectural Barriers Act) Accessibility Standard" and Deputy Secretary of Defense Memorandum "Access for People with Disabilities" dated 10/3 112008, Evidence Based Design principles, Military Health System World Class Checklist Requirements (version 2.0, 2011), Executive Order 13514, DoD Strategic Sustainability Performance Plan, Energy Policy Act of 2005, and other applicable codes and regulations. The project will be designed to Leadership in Energy and Environmental Design (LEED) 3.0 Silver Certified rating standard.

- Contractor: Seohee Construction, Co., Ltd.
- Date of Award: Sept. 26, 2013
- Total Contract Amount: \$22,361,380.34

YRP, Phase III Facility, USAG Humphreys

Construct a 81,698 square feet, two-story, Sensitive Compartmented Information Facility containing administrative offices, data center, and utility plant. Construction shall comply with DoD Standards for Overseas SCIF construction. Utility plant will house backup power generators, transformers, electrical switchgear, chillers, hot water boilers, uninterruptible power systems, and various pumps. Building envelope, which includes blast doors and windows, shall comply with DoD Antiterrorism/Force Protection Requirements. Building also includes a two-stop, passenger/freight elevator. Supporting facilities include earthwork, access road and site improvements, and water, sewer, electrical, and communication connections to garrison systems. Antiterrorism measures include crash rated perimeter fence, active barriers, Integrated Defense System, Access Control and closed-circuit television Electronic Security Systems.

- Contractor: ECC International, LLC
- Date of Award: Sept. 27, 2013
- Total Contract Amount: \$72,532,035.10

Contracts Branch: Relocation Section

Administrative and General Management Services for Yongsan Relocation and Land Partnership Plan

Joint Task Order 23B for Program Management Services

Program Management services provide both Korean and U.S. governments with business management, contracts management, finance, accounting, program assurance, risk management, safety management and security management for the overall USFK Base Relocation program and operation.

- Contractor: K-C PMC
- Date of Award: Dec. 11, 2012
- Award Amount: \$12,292,286

Joint Task Order 24B for C4I Program Management Services

Command, control, communications, computers and intelligence (C4I) program management services include program leadership and project-level management services to both Korean and U.S. governments in support of Command, Control, Communications, Computers and Intelligence for the LPP and YRP projects. The C4I services also include management oversight of the scale of complex, and unclassified technical work across many different systems, platforms, facilities and networks.

- Contractor: K-C PMC
- Date of Award: Dec. 11, 2012
- Award Amount: \$6,270,339

Purchase Branch: Services Section

IDIQ Multiple Award Task Order Contract for Environmental Services, Korea-Wide

The contract provides a full suite of environmental services to support the various environmental programs and initiatives undertaken by the DoD and other U.S. government interests in Korea. The range of services is extensive, including environmental compliance, pollution prevention, and remediation. The services will be specified in the task order and may include site survey, data collection and management, plan development, sampling and analytical testing, remedial investigation and field studies, engineering support and remedial design, remedial action, response action, removal, operation and maintenance, removal, replacement and upgrade of fuel storage tanks and oil water separators, tank system tightness testing, asbestos survey, reporting, and abatement.

- Contractor: APEC and Daebo
- Date of Award: Nov. 21, 2013
- Total Contract Value: \$10,000,000

Replace Overhead Coiling Door at Drill Rig Shelter, FED Compound

As a result of a vehicle accident, the drill rig overhead door was damaged and made inoperable. Through a joint effort between multiple divisions from the district, the door was repaired and replaced in order to restore the building's functionality.

- Contractor: Interfurs
- Date of Award: Sept. 24, 2013
- Total Contract Amount: 53,700,000 Won

Purchase Branch: A&E Section

CY10 YRP, BCTC Simulations Center SCIF, USAG Humphreys

Design for a 978 square-meter prefabricated modular Secure Compartmented Information Facility for the communications and network security functions of the Battle Command Training Center Simulations Center. The primary purpose of the facility is to relocate the existing combined battle simulations facility and functions for TREND/CJ37 exercise and NEO facilities located at Yongsan Garrison. It will provide operations office, secure communications equipment and secure access control to support unit mission. The facility will be located adjacent to the BCTC, which houses the primary facilities for conducting computer driven battlefield simulation exercises to division level with links to other BCTC's a battle simulation center, exercise planning and coordination center, Non-combatant evacuee operations center, Training, Readiness, Exercise, (TREND) (CJ37) center and a large video conference center.

- Contractor: AMKOR
- Date of Contract Award: Jan. 2, 2013
- Total Contract Amount: \$1,267,688

FY14 DoDEA, MILCON, Replace Daegu Middle/High School, Camp Walker

Design for a two-story middle/high school to provide adequate academic facilities for 525 students in grades 6 to 12, based on school year 2015. Facilities will be designed in accordance with Department of Defense Dependent Schools Education Facilities Specifications, Americans with Disabilities Act Accessibility Guidelines/Architectural Barriers Act, National Fire Protection Association Life Safety Code, Standards of Seismic Safety for Federally Owned Buildings, and energy and water conservation standards. It will replace the existing interim middle and high School facilities at Daegu American School and Camp George by constructing a new consolidated middle/high school facility at Camp Walker.

- Contractor: MMI
- Date of Contract Award: Dec. 11, 2012
- Total Contract Amount: \$2,898,379

FY16 MILCON, Korea Air Operations and Combined Operations-Intelligence Center, Osan Air Base

Design for a combined Korea Air Operations Center utilizing conventional design and construction methods to accommodate the mission of the facility. The facility will be compatible with applicable DoD, Air Force, and base design standards. In addition, local materials and construction techniques will be used where cost effective and comply with Intelligence Community Directive 705 requirement. The facility will also be able to withstand wind loads and seismic effects as prescribed in applicable codes and design guides. It will comply with DoD force protection requirements per Unified Facilities Criteria. The facility consists of a multi-story hardened concrete structure partially below grade.

- Contractor: TJD
- Date of Contract Award: Sept. 25, 2013
- Total Contract Amount: \$745,550 (Design charrette amount)

RESOURCE MANAGEMENT

As the district expanded in resources both in manning and budget, the financial team continued to ensure that no fiscal violation or over obligation was reported, submitted upward reports within established time frames 100 percent of the time, and validated all purchase requests to ensure propriety and legality of funds cited.

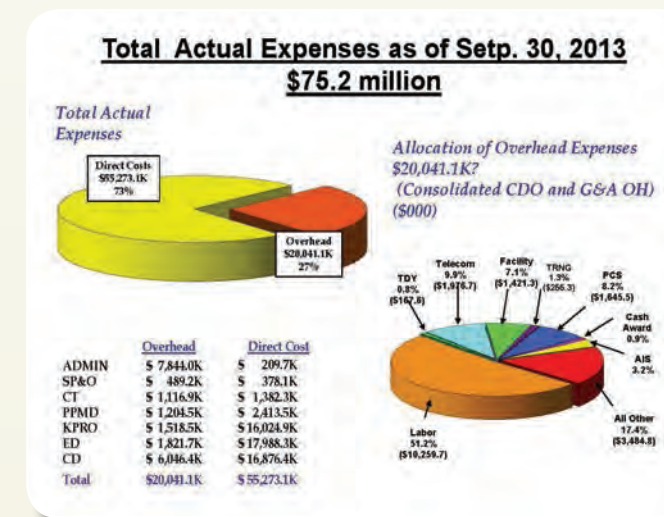
We reviewed, analyzed, interpreted, and ensure emphasis on all Chief Financial Officers issue to ensure fiscal compliance during the year. As a result, the district reported accurate CFO account status and timely corrective actions to ensure monthly compliance. Resource Management monitored and reported Green ratings for the CFO Act status as of Sept. 30, 2013, including payroll, labor

cost transfer support and approval, property, plant and equipment, unliquidated obligations dormant for 240 days and Accounts Payable.

During this year, we reached new highs with a manpower end strength of 559 with the following breakdown: Tier I – 540 (259 DAC / 255 KN / 26 Military); Tier II – 19 interns, Property Management Office Services contractors, Korea Service Corps.

With the surge in workload, we accepted \$506.5 million for project execution from the following sources: \$107.7 million direct funds (\$107.2 million were for military construction projects) and \$398.8 million reimbursable funds (\$238.4 million were for host nation proj-

ects). In addition, we monitored and guided the district to meet our consolidated command guidance overhead account balances by closely monitoring our consolidated departmental overhead and general and administrative rates of 45 percent and 22 percent respectively.



The direct/indirect labor charging for FY13 budget and actual were 86.2 percent /13.8 percent and actual 87.2 percent/12.8 percent respectively which was one of the highest direct labor charges throughout the region. In addition, our supervision and administration flat rate report income/expenses for the month ended Sept. 2012 was a net positive more income and expenditures by \$3.84 million.

The Department of the Army civilian and Korean national effective rates were 218 percent and 145 percent respectively, Korean national payroll rate adjusted on Aug. 12, 2012 from 1150 won/\$1 to 1100 won/\$1 and local obligation rate remained at 1020 won/\$1.

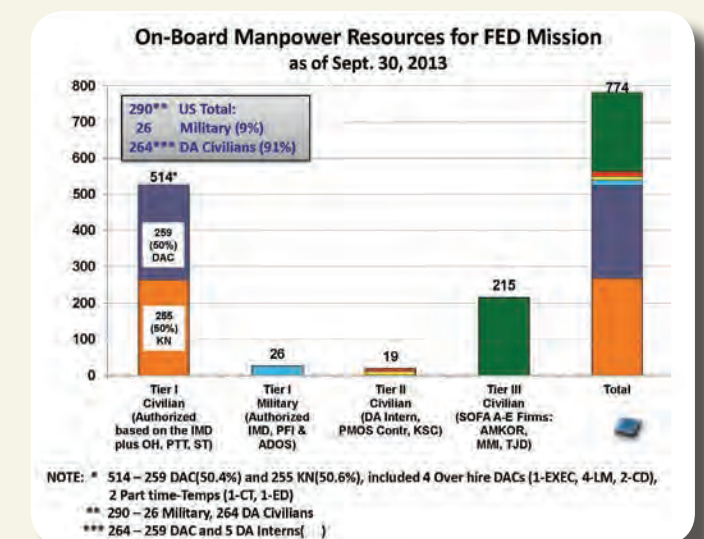
On the budgetary side, we participated in the development of two balanced FY13 initial and mid-year budgets with a workload and income of \$759 million/\$84.2 million and \$802 million/\$83.9 million respectively. The net result of our budgetary process was an actual workload and income of \$693 million/\$75.2 million respectively or 90 percent execution with \$55.2 million and \$20.0 million of direct and indirect expenditures respectively.

The actual workload and income comprised of \$532 million of construction placement, \$86 million of AE and other contract, and \$75 million of in-house supervision and administration and planning and design cost.

As a result, the undistributed balance or net results of operations ended the year with \$151,200 positive balance which was within the consolidated command guidance nominal range of +/- \$246,600, or a green rating.

For our fund control process, during the unliquidated obligations phase I, II, III, and IV reviews, the district reviewed \$1,365,449,329.91, \$467,230,874.47, \$1,346,667,100.22, and \$1,337,832,192.84 balances respectively. In all four phases, RM successfully reviewed and adjusted \$21,950,269.79 of the total balance of \$4,517,179,407.44 or 2,909 adjusted transactions. The following is a recap of the total reviewed items: total reviewed = 14,273 valued at \$4.517 billion; cancelling appropriations items reviewed = 251 valued at \$5.9 million; inactive items = 1,639 valued at \$1,789.0 million; less than \$100 and 90 days and older items = 693 valued at \$31,873.10; inter-agency items = 379 valued at \$39.7 million; expired items = 2,877 valued at \$256.7 million; other items = 8,434 valued at \$2,425.0 billion; adjusted items = 2,909 valued at \$21.9 million.

In addition, we continue to serve as subject area expert for U.S. Army Corps of Engineers regarding Republic of Korea funded construction limited depositary account and foreign currency issues. We continue to maintain our funds control process and ensure that funds accepted from the host nation through U.S. Forces Korea is in accordance with generally accepted accounting principles and with the burden sharing and relocation statutes/10 USC 2350j/10 USC 2350k.





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